



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 45] नई दिल्ली, शनिवार, नवम्बर 5, 1988 (कार्तिक 14, 1910)

No. 45] NEW DELHI, SATURDAY, NOVEMBER 5, 1988 (KARTIKA 14, 1910)

(इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके)

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office Relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 5th November 1988

ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch, Todi Estates,
III Floor, Lower Parel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

1-317 GI/88

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and, the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),
"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All application, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

Calcutta, the 5th November 1988

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGDISH BOSE ROAD, CALCUTTA-20

The dates shown in crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 29th September, 1988

807/Cal/88. Apace Research Limited. An emulsion of liquid hydrocarbons with water or alcohols. (Convention dated 12-3-1982 & 30-11-1982) both are Australia.

808/Cal/88. Hoechst Aktiengesellschaft. Hydroxyethylsulfonylnitro-and hydroxyethylsulfonylamino-benzoic acids and processes for their preparation.

809/Cal/88. Siemens Aktiengesellschaft. Sheet metal shield for a subassembly case.

810/Cal/88. Universitet Druzhby Narodov Imeni Patrisa Lumumby Ussr. Radial-flow fan.

The 30th September, 1988

811/Cal/88. Bernd Ostermeyer. Side tipper support system.

812/Cal/88. Siemens Aktiengesellschaft. Auxiliary winding on a generator including the clamping bolts of the laminated stator core.

The 3rd October, 1988

813/Cal/88. Johnson & Johnson. Wound dressing with activated carbon. (Convention dated 6-10-1987) U.K.

814/Cal/88. Siemens Aktiengesellschaft. Arrangement for measuring the slip of electric induction motors.

815/Cal/88. Nukem GmbH. Method and device for cleaning in particular of disc-shaped oxide substrate.

816/Cal/88. Trylon Associates Ltd. A medical examination illuminating device. [Divisional dated 6-3-1985].

The 4th October, 1988

817/Cal/88. Om Chandra Kafley. The OM's method for detection and prosecution of piracy in copyright works.

818/Cal/88. Norsolor. Functionalized ethylene polymers useful for metal coating and process for their preparation.

819/Cal/88. Agustin Arana Erana. Improvements introduced in the formation of foundry core blocks.

820/Cal/88. Young Ho Yoo. Pneumatic tyre assembly.

821/Cal/88. Cyprus Industrial Minerals Company. Method and apparatus for friction sorting of particulate materials.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-5

The 12th September, 1988

766/Del/88. Clark Automotive Development Limited, "A motor or alternator".

(Convention date 15th September, 1987) (New Zealand).

767/Del/88. MTA Kozponti Kemiai Kutato Intezete and Magyar Szenhidrogenipari Kutato-Fejlesztő Intezet, "Ignition process for oil recovery from Heterogeneous hydrocarbon-bearing formations".

768/Del/88. Champion Spark Plug Europe S.A., "Spark plug for internal combustion engine". (Convention date 17th September, 1987) (U.K.).

769/Del/88. Alexandr Semenovitch Bukatov, Irina Viktorovna Koroteeva, Naum Abramovich Iofis, Anatoly Stepanovich Kostretsov., "Titanium implant for cardiovascular surgery and a method for making same".

770/Del/88. Bharat Heavy Electricals Limited., "A semi-automatic card testing system".

The 13th September, 1988

771/Del/88. The B.F. Goodrich Company., "Frosted polymeric articles and process for producing same".

772/Del/88. Exxon Chemical Patents Inc., "Fuel oil additives".

(Convention date 18th September, 1987) (U.K.).

773/Del/88. Eastway Holdings Limited., "Method of securing the stator of an electrical machine". [Divisional date 9th January, 1986].

774/Del/88. Alenax Corporation., "Propulsion mechanism for lever propelled bicycles". [Divisional date 22nd January, 1986].

The 14th September, 1988

775/Del/88. Ranbaxy Laboratories Limited., "A new class of homogeneous catalysts for the preparation of α -6-Deoxy-Tetracyclines".

776/Del/88. Ranbaxy Laboratories Limited., "A new process for the preparation of α -6-Deoxytetracyclines".

777/Del/88. UOP., "Alkylation/Transalkylation process for Selective production of monoalkylated Aromatics".

778/Del/88. Arrow Oil Tools, Inc., "Retractable slip assembly".

779/Del/88. The procter & Gamble Company., "Absorbent structures with gelling agent and absorbent articles containing such structures".

780/Del/88. The B.F. Goodrich Company., "A method of stabilizing a vinyl halide resin".

[Divisional date 8th April, 1986].

781/Del/88. Skatewing International Pty. Limited., "A ride-on wheeled toy".

(Convention date 18-9-1987, 29th January, 1988 & 5th February, 1988) (Australia).

The 16th September, 1988

782/Del/88. Hideoaki Yamada., Nitto Kagaku Kogyo Kabushiki Kaisha, "Process for biological production of amides".

783/Del/88. Petr Andreevich Bogdanov and others., "Rotary Internal combustion engine".

784/Del/88. Alla Venkata Krishna Reddy., "Prophylactic device".

**APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002**

The 12th September 1988

- 639/Mas/88. Uppinangady Varadaraya Nayak. A self resetting attachment device for attachment to a projection such as a bar, pole, stem or a frame member.
- 640/Mas/88. Yogendra Honsor Sanjeeva Sheety. Portable smoke tube boiler and domestic boilers
- 641/Mas/88. Linde Aktiengesellschaft. Process for H_2/CO separation by means of partial condensation at a low temperature.
- 642/Mas/88. Institut Francais Du Petrole. A method and device to actuate specialized intervention equipment in a drilled well having at least one section highly slanted with respect to a vertical line.

The 13th September, 1988

- 643/Mas/88. BASF Aktiengesellschaft. Condensates of bis-(4-hydroxyphenyl) sulfone as tanning assistants, their preparation and use in the tanning of leather.
- 644/Mas/88. Fives-Cail Babcock. Fluidized bed combustion process and plant for the implementation of this process.

The 14th September, 1988

- 645/Mas/88. K. Seshadri. Compression ignition opposed piston multicylinder compounded engines; (as four stroke).
- 646/Mas/88. G. Venkatramana Bhat. Frictionless thrust ball bearing.
- 647/Mas/88. G. Venkatramana Bhat. Frictionless roller bearing.
- 648/Mas/88. G. Venkatramana Bhat. Frictionless taper roller bearing.
- 649/Mas/88. G. Venkatramana Bhat. Frictionless Thrust roller bearing.
- 650/Mas/88. Dr. Jose Thakattil. Funnel.

The 16th September 1988

- 651/Mas/88. Centralen Institute Po Chemicheska Promishlenost. Insecticide means for protection from harmful insects of species homoptera and thysanoptera.
- 652/Mas/88. The Dow Chemical Company. Improved casting process.

The 19th September, 1988

- 653/Mas/88. Srinivasa Iyer Gopalakrishnan. A single phase cum dry run preventor (current sensing type with 30 second tolerance of dry run) for three phase agricultural pumpsets.
- 654/Mas/88. Indian Institute of Science. A process for preparation of zinc oxide composites for low and high voltage surge.
- 655/Mas/88. Astra Research Centre. A method of obtaining antigens of cysticercus cellulosae for immunodiagnosis of cysticercosis and the use thereof.
- 656/Mas/88. Henkel Kommanditgesellschaft auf Aktien. A water-soluble multipurpose adhesive.
- 657/Mas/88. Nippon Chemiphar Co., Ltd. Process for the preparation of an alkylenediamine derivative. (Divisional to Patent No. 63/Mas/87.

The 20th September, 1988

- 658/Mas/88. Alladi Prabhakar. Auto Generator Starter.
- 659/Mas/88. Foseco International Limited. Rotary fouring nozzle for a vessel for holding molten metal. (October 1, 1987; United Kingdom).
- 660/Mas/88. Vereinigte Aluminium-werke Aktiengesellschaft. Tubular reactor for the high-temperature decomposition of bauxite containing bohmite and diaspor.
- 661/Mas/88. Advanced Extraction Technologies, Inc. Processing nitrogen-rich hydrogen-rich, and olefin-rich gases with physical solvents.

The 21st September, 1988

- 662/Mas/88. Thor S.A. An axle assembly for a motor vehicle.
- 663/Mas/88. Pumptech N.V. Oil-well cement slurries with good fluid-loss control.
- 664/Mas/88. Dynamit Nobel Aktiengesellschaft. Pre-barrel safety mechanism on a projectile with percussion fuse.

The 22nd September, 1988

- 665/Mas/88. Dana Corporation. Unitary Molded plastic seal.

The 23rd September, 1988

- 666/Mas/88. The Marmon Corporation. Hatcher with internally mounted exhaust duct and exhaust damper control means.
- 667/Mas/88. Danaklon A/S. Reinforcing fibres and a method of producing the same.

ALTERATION OF DATE

163740. Ante dated to 29th September, 1984. (515/Cal/87)

OPPOSITION PROCEEDINGS

An opposition has been entered by National Council for Cement & Building materials to the grant of a patent on application No. 162194 made by Durga Prasad Saboo.

The opposition entered by Mr. Subramanian Sundaram to the grant of a patent on Application No. 151868 made by M/s. Primatex Machinery Pvt. Ltd. as notified in the Gazette of India, Part III, Section 2 dated 17th March, 1984 has been dismissed but the application will proceed to sealing only after the decision in the other opposition case as notified on 17th March, 1984 in the same Gazette is decided in applicant's favour.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

Claim made by Eskla B. V. under Section 20(1) of the Patents Act, 1970, to proceed the Application for Patent No. 161954 in their name has been allowed.

PATENTS SEALED

160351	161365	161387	161417	161501	161502	161510
161537	161665	161723	161746	161747	161757	161774
161817	161858	161860	161861	161872	161873	161881
161884	161886	161888	161890	161902	161906	161907
161916	161924	161933	161938	161940	161942	161948
161968	162001	162006	162076	162076	162087	162097
162148	162151	162178				

No. of PATENTS SEALED MONTHWISE FROM 1ST JANUARY, 1988 to 30th SEPTEMBER' 1988

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	TOTAL
INDIAN :	54	56	67	45	100	108	87	76	100	693
FOREIGN :	185	118	133	138	224	280	329	234	338	1979
TOTAL :	239	174	200	183	324	388	416	310	438	2672

REGISTRATION OF ASSIGNMENTS LICENCES ETC.
(PATENTS)

In pursuance of an application received on 14th March, 1986, Lydall Inc. of one Colonial Road, Manchester, Con-

necticut, 06040 registered as proprietors by virtue of an assignment deed dated 14th May, 1985 and made between Rogers Corporation of the one part and Lydall Inc. of other part in respect of Patent No. 148463.

STATEMENT REGARDING ASSIGNMENTS OR PATENTS REGISTERED UNDER SECTION 68 AND 69
FOR THE PERIOD OF JANUARY 1988 TO AUGUST 1988.
FORM INDIAN TO INDIAN

Patent Nos.	Patentee	Assigned to	Assigned on	Entry made under section	Entry made on
153546	Council of Scientific & Industrial Research of New Delhi.	National Research Development Corporation of India, New Delhi.	6-10-87	68	23-2-88
153539	Asit Kumar Banerjee and Satj Prasad Das Gupta of Britannia Eng. Co. Ltd. W. Bengal India.	Britannia Eng. Products & Services Limited Cal. India.	7-12-87	68 & 69	4-4-88
149429	Kadarundaligo Sita Ramdas Gururaja Doss, Tamil Nadu, India.	Satwio Electric Controls Private Limited Nasik Maharashtra, India.	29-2-88	68 and 69	29-3-88 4-4-88
158623	Mr. John Michael Pereira, Bombay.	M/s. Pereira Equipments Mfg. Co. Bombay.	1-3-88	68	2-6-88

STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER SECTION 68 AND 69 FOR THE PERIOD OF JANUARY 1988 TO AUGUST 1988.

FORM FOREIGNERS TO INDIAN

Patent Nos.	Patentee	Licence granted to	Licence granted on	Entry made on	Entry under made u/s
154151	Foster Wheeler Power Products Limited, England.	Indago Engineering Pvt. Ltd. Bombay.	21-10-87	5-4-88	68 and 69
151480	Machinenfabric	Lakshmi Machine Works Limited Coimbatore, India.	14-4-88	30-6-88	68 and 69
152373	Rieter Ag	Do.	Do.	Do.	68 and 69
151767	Switzerland	Do.	Do.	Do.	68 and 69
131565, 130085, 130859 131885, 133270, 134889 134890, 135369, 136062 136186, 137264, 138321 138585, 139094, 139374, 139475, 139488, 139812 140203, 140215, 141053 142087, 142145, 142345 143061, 143076, 143542, 146711, 146712, 146713, 146714, 147491, 148778, 149242, 149294, 149295, 149296, 149297, 149394, 149427, 149638, 149798, 149834, 149835, 149898, 150269, 150046, 150178, 150356, 150358, 150461, 150635, 150636, 150638, 150673, 150779, 151873, 151332, 151352 & 149968.	Lucas Industries Private Limited Company, England.	Brakes India Ltd. an Indian Company having its regd. Office at Nt. 180, Mount Road Madras 600006 India	4-7-84	23-12-87 to 24-3-88	68 and 69
	"	"	"	"	68

**STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER
SECTIONS 68 AND 69 FOR THE PERIOD OF JANUARY 1988 TO AUGUST 1988.
FROM INDIAN TO INDIAN**

Patent No.	Patentee	Licence granted to	Licence Granted on	Entry made on	Entry made under Sec.
145250	National Research Development Corporation of India, New Delhi.	Bijay Jain of M/s Manipur Ferroconcrete Products, Manipur, India.	18-3-88	8-8-88	68
	Do.	M/s Santi Concrete Industries, Ganjbajar Meerut, India.	5-1-88	Do.	68
	Do.	M/s Ravindra Industries 1235/4 Urban Estate Gurgaon	Do.	Do.	68
	Do.	Jawahar Singh of M/s Ferrocement Concrete Products.	9-9-87	29-8-88	68
156855	Central Mines Planning & Design Institute Ltd. and Eastern Carbons India.	Jai Durga Industries an Indian Partnership Firm, Ram Nagar Varanasi U.P. India.	14-8-87	21-3-88	68 & 69
156948	Dr Iqbal Krishna Bharati, Maharashtra India.	Ensavo Contrle Pvt. Ltd. W.B. Great Kailash Part II, New Delhi.	26-2-88	10.6.88	68

RENEWAL FEES PAID

140635	140642	142706	143277	143444	143619	143877	157819	157830	157874	158096	158136	158137	158139
143878	143912	144171	144230	144293	144695	145083	158249	158256	158263	158279	158297	158308	158310
145084	145085	145463	145533	145553	145702	145966	158317	158370	158425	158426	158472	158518	158523
146221	146370	146400	146410	146517	146531	146542	158525	158529	158530	158551	158571	158572	158732
146543	146940	147213	147955	148110	148205	148257	158740	158879	158931	158953	158957	158970	158989
148309	148429	148460	148463	148603	148667	148768	159013	159097	159137	159139	159166	159167	159179
148776	148777	148779	148782	148893	149418	149664	159305	159312	159319	159341	159359	159360	159373
149883	150058	150059	150151	150188	150486	150541	159374	159382	159383	159423	159424	159426	159438
150612	150654	150668	150945	151245	151347	151449	159442	159443	159444	159450	159451	159453	159455
151895	151917	151951	152167	152307	152308	152309	159464	159491	159494	159495	159501	159506	159509
152259	152545	152546	152547	152611	152612	152797	159531	159537	159550	159552	159554	159559	159571
152983	152994	153057	153207	153289	153528	153638	159572	159573	159574	159587	159590	159612	159613
153724	153765	154064	154125	154229	154237	154242	159627	159632	159652	159664	159667	159673	159675
154278	154324	154510	154551	154555	154558	154900	159682	159717	159718	159723	159732	159739	159740
155094	155132	155168	155365	155566	155571	155465	159743	159745	159748	159752	159755	159759	159760
155863	156071	156205	156250	156270	156273	156304	159762	159764	159791	159808	159810	159811	159813
156453	156480	156543	156729	156807	156814	156850	159817	159821	159823	159829	159837	159839	159843
156863	156883	156903	156904	156980	156999	157000	159845	159850	159864	159867	159871	159873	159874
157055	157079	157081	157092	157314	157386	157430	159876	159878	159879	159881	159905	159909	159910
157431	157449	157555	157648	157699	157706	157818	159927	159947	159964	160011	160038	160043	160044
							160057	160063	160064	160066	160078	160088	160098

160111 160141 160164 160169 160197 160364 160402
 160693 160699 160700 160701 160829 160841 161627
 161630.

CESSATION OF PATENTS

143868 143870 143871 143872 143873 143876 143881
 143888 143890 143892 143894 143895 143897 143900
 143907 143910 143911 143918 143919 143920 143921
 143922 143923 143924 143926 143929 143931 143935
 143937 143938 143940 143941 143942 143944 143946
 143948 143950 143951 153952 153955 143957 143962
 143966 143974 143975 143976 143977 143979 143980
 143981 143983 143984 143986 143990 143991 143993
 143994 143997 143998 143999 144004 144005 144009
 144011 144012 144013 144014 144015 144018 144020
 144021 144022 144023 144025 144028 144029 144031
 144032 144033 144037 144038 144039 144040 144044
 144045 144048 144049 144050 144051 144052 144054
 144055 144059 144063 144064 144065 144066 144067
 144068 144070 144071 144072 144074 144079 144081
 144084 144086 144089 144090 144091.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 159509. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Motor Cycle". 23rd March, 1988.

Class 1. No. 159511. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Motor Cycle". 23rd March, 1988.

Class 1. No. 159519. Purolator India Limited, 1, Sri Aurobindo Marg, New Delhi-110016, India, an Indian Company. "Filter". 24th March, 1988.

Class 1. Nos. 159540 & 159541. Madhusudan Joshi, of D-76, Gulmohar Park, New Delhi-110049, India, an Indian national. "Staple". 29th March, 1988.

Class 1. No. 159663. IBP. CO. LTD., (a Government of India Enterprise under the Indian Companies Act) at Gillander House, 8 Netaji Subhas Road, Calcutta-700 001, State of West Bengal, India. "High Vacuum Gate Valve". 3rd May, 1988.

Class 1. No. 159703. Kirit Sheth, Indian National, of 44 Mint Road, Fort, Bombay 400 001, State of Maharashtra, India. "Bottle". 16th May, 1988.

Class 1. No. 159708. Earl Bihari Private Limited, (a company incorporated under the Indian Companies Act) at 148-B, St. Cyril's Road, Bandra, Bombay-400 050, State of Maharashtra, India. "Multi Spanner". 16th May, 1988.

Class 1. No. 159706. Prakash Purshottam Deo, Indian National of Deoson Industries, 1 Geetanjali Apts., Plot No. 19, Off I.T.I. Road, Aundh, Pune-411 007, Maharashtra, India. "Contact Element". 16th May, 1988.

Class 1. No. 159707. Earl Bihari Private Limited, (a company incorporated under the Indian Companies Act) at 148-B, St. Cyril's Road, Bandra, Bombay-400 050, State of Maharashtra, India. "Window Friction Slide". 16th May, 1988.

Class 1. No. 159991. Baldev Murajmal Totlani, 7th Floor, Amore, 316, Perry Cross Road, Bombay-400 050. "Oil Pot". 27th July, 1988.

Class 3. No. 159510. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Motor-cycle". 23rd March, 1988.

Class 3. No. 159512. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Petrol Tank". 23rd March, 1988.

Class 3. No. 159513. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on side Cover". 23rd March, 1988.

Class 3. No. 159514. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Rear Cover". 23rd March, 1988.

Class 3. No. 159561. Tarachand Kheria, 3 Woodburn Road, Calcutta-700 020, West Bengal, India, an Indian national. "Cistern". 4th April, 1988.

Class 3. No. 159562. Tarachand Kheria, 3 Woodburn Road, Calcutta-700 020, West Bengal, India, an Indian national. "Flush Valve". 4th April, 1988.

Class 3. No. 159563. Tarachand Kheria, 3 Woodburn Road, Calcutta-700 020, West Bengal, India, an Indian national. "Float Valve". 4th April, 1988.

Class 3. No. 159594. Beecham Group P.L.C., a British company of Beecham House, Brentford, Middlesex TW8 9BD, England. a "Container". Reciprocity date is 28th November, 1987 (U.K.).

Class 3. No. 159595. Beecham Group P.L.C., a British company of Beecham House, Brentford, Middlesex TW8 9BD, England. a "Container". Reciprocity date is 28th November, 1987 (U.K.).

Class 3. No. 159677. Burns, Philp & Company Limited a Company incorporated under the laws of the State of New South Wales, Commonwealth of Australia, of 2-20 River Road West, Parramatta, New South Wales, 2150 Australia. a "Dispensing Machine". Reciprocity date is 12th November, 1987 (Australia).

Class 3. No. 159705. Prakash Purshottam Deo, Indian National of Deoson Industries, 1 Geetanjali Apts., Plot No. 19, off I.T.I. Road, Aundh, Pune-411 007, Maharashtra, India. "Circuit Breaker". 16th May, 1988.

Class 3. No. 159709. Concept Pharmaceuticals Private Limited, an Indian Company, at 167 C.S.T. Road, Santacruz (East), Bombay-400 098, State of Maharashtra, India. "Electronic Pain Reliever". 16th May, 1988.

Class 3. No. 159710. Harshad Sardesai and Satishchandra Soman both Indian Nationals of 2A Sushila Apartments, Nal Stop, Karve Road, District-Pune, Maharashtra State, India. "A device which indicates the exact time to replace air cleaner element". 16th May, 1988.

Class 3. No. 159751. Chandrakant Laljibhal Patel, Indian National, residing at 1/B, Laxmi Sadan, Ashok Nagar, Kandivli (East), Bombay-400 101, State of Maharashtra India. "Hexagonal Carom Board". 27th May, 1988.

Class 3. Nos. 159760 & 159762. Union Carbide India Limited, an Indian Company, 1 Middleton Street, Calcutta-700 071, West Bengal, India. "Cycle Lamp". 30th May, 1988.

Class 4. No. 159376. Advisory Board of Energy, a Government of India body of Sardar Patel Bhavan, Parliament Street, New Delhi-110001, India and Nimbkar Agricultural Research Institute a Registered Society of Paltan-415523, Dist. Satara, Maharashtra, India, "Mantle for Kerosene lamps". 5th February, 1988.

Class 4. Nos. 159700 to 159702. Kirit Sheth Indian National, of 44 Mint Road, Fort, Bombay-400 001, State of Maharashtra, India, "Bottle". 16th May, 1988.

Class 5. No. 159392. GTC Industries Limited, (an Indian Company at Tobacco House, Vile Parle, Bombay-400 056, State of Maharashtra, India. "Cigarette Packet". 12th February, 1988.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceed-

ing one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

NUMBER INDEXES OF THE COMPLETE SPECIFICATION ACCEPTED DURING THE YEAR 1985 (Nos. from 155101 to 157020 including accepted specification Nos. 145526, 145534 etc.)

1974	
1496/Cal/74	156427
2513/Cal/74	156428
1975	
258/Cal/75	156409
259/Cal/75	156410
260/Cal/75	155534
964/Cal/75	155535
1075/Cal/75	155536
1130/Cal/75	145586
1148/Cal/75	155537
1248/Cal/75	155538
1265/Cal/75	155539
1312/Cal/75	145709
1356/Cal/75	155540
1422/Cal/75	155541
1531/Cal/75	156412
1547/Cal/75	145555
1548/Cal/75	156441
1556/Cal/75	155542
1582/Cal/75	155543
1595/Cal/75	145660
1596/Cal/75	145661
1597/Cal/75	145662
1624/Cal/75	155544
1651/Cal/75	156635
1677/Cal/75	156949
1703/Cal/75	155545
1734/Cal/75	155546
1736/Cal/75	145556
1754/Cal/75	155734
1798/Cal/75	155547

1975 (Contd.)

1846/Cal/75
1873/Cal/75
1894/Cal/75
1948/Cal/75
1997/Cal/75
2011/Cal/75
2023/Cal/75
2027/Cal/75
2030/Cal/75
2062/Cal/75
2071/Cal/75
2073/Cal/75
2087/Cal/75
2115/Cal/75
2116/Cal/75
2137/Cal/75
2140/Cal/75
2172/Cal/75
2203/Cal/75
2238/Cal/75
2295/Cal/75
2296/Cal/75
2332/Cal/75
2335/Cal/75
2337/Cal/75
2366/Cal/75
2385/Cal/75
2388/Cal/75
2434/Cal/75
2435/Cal/75
1976
59/Cal/76
76/Cal/76
77/Cal/76
79/Cal/76
97/Cal/76
129/Cal/76
175/Cal/76

1976 (Contd.)

155548	207/Cal/76	155332
155549	235/Cal/76	156419
155550	245/Cal/76	155333
155518	251/Cal/76	155344
155519	272/Cal/76	155507
145719	282/Cal/76	155941
155722	296/Cal/76	155345
155520	319/Cal/76	155725
145676	353/Cal/76	145587
155521	373/Cal/76	155831
155522	377/Cal/76	156494
155523	406/Cal/76	155508
155524	447/Cal/76	155818
155525	457/Cal/76	155509
155526	458/Cal/76	155510
155527	469/Cal/76	155511
155735	581/Cal/76	145534
155328	596/Cal/76	155512
155736	599/Cal/76	156420
155529	666/Cal/76	156421
155737	667/Cal/76	155738
155530	680/Cal/76	155819
145649	708/Cal/76	155334
155531	720/Cal/76	145666
156411	729/Cal/76	155346
155906	730/Cal/76	155513
155532	732/Cal/76	156422
155533	764/Cal/76	155335
155816	770/Cal/76	155336
145720	790/Cal/76	155514
155723	826/Cal/76	155515
155724	851/Cal/76	145677
155505	880/Cal/76	155516
155817	881/Cal/76	155726
155343	999/Cal/76	155727
156418	1022/Cal/76	145611
155506		

1976 (Contd.)		1977 (Contd.)		1980 (Contd.)	
1032/Cal/76	156413	109/Cal/77	155830	910/Cal/80	155262
1084/Cal/76	155517	127/Cal/77	155287	911/Cal/80	155263
1105/Cal/76	155739	128/Cal/77	145579	912/Cal/80	155277
1120/Cal/76	155632	136/Cal/77	145595	934/Cal/80	155187
1157/Cal/76	145624	137/Cal/77	145714	950/Cal/80	156407
1203/Cal/76	145625	153/Cal/77	155288	956/Cal/80	155290
1205/Cal/76	155740	161/Cal/77	155289	957/Cal/89	155328
1267/Cal/76	155942	179/Cal/77	155270	1016/Cal/80	155188
1298/Cal/76	155835	183/Cal/77	155898	1027/Cal/80	155450
1299/Cal/76	145627	197/Cal/77	155899	1033/Cal/80	155386
1310/Cal/76	155741	210/Cal/77	145596	1058/Cal/80	155479
1340/Cal/76	145705	233/Cal/77	155900	1076/Cal/80	155264
1353/Cal/76	145575	263/Cal/77	155901	1107/Cal/80	155955
1360/Cal/76	155728	353/Cal/77	155943	1157/Cal/80	155491
1377/Cal/76	155820	357/Cal/77	155954	1183/Cal/80	155162
1391/Cal/76	145612	375/Cal/77	155902	1280/Cal/80	155480
1471/Cal/76	155742	387/Cal/77	155945	1359/Cal/80	155678
1492/Cal/76	155821	416/Cal/77	156058	1360/Cal/80	155421
1493/Cal/76	145538	425/Cal/77	156059	1421/Cal/80	155265
1603/Cal/76	145637	439/Cal/77	156055	1422/Cal/80	155409
1655/Cal/76	155822	449/Cal/77	155903	1443/Cal/80	155101
1675/Cal/76	156446	484/Cal/77	156056	33/Del/80	155776
1736/Cal/76	155832	491/Cal/77	155904	34/Del/80	155777
1782/Cal/76	156435	492/Cal/77	155905	165/Del/80	156268
1793/Cal/76	145537	493/Cal/77	155907	199/Del/80	155810
1796/Cal/76	155823	503/Cal/77	155908	358/Del/80	155588
1802/Cal/76	145576	518/Cal/77	155909	388/Del/80	156322
1827/Cal/76	145558	519/Cal/77	155944	513/Del/80	155586
1854/Cal/76	155824	520/Cal/77	155910	547/Del/80	155316
1859/Cal/76	156414	531/Cal/77	155911	565/Cal/80	156116
1860/Cal/76	155743	609/Cal/77	155912	579/Del/80	155204
1890/Cal/76	155744	621/Cal/77	156430	582/Del/80	156086
1917/Cal/76	155729	628/Cal/77	145671	585/Del/80	155132
1918/Cal/76	145713	629/Cal/77	155913	633/Del/80	155353
1925/Cal/76	155730	630/Cal/77	155946	703/Del/80	155295
1938/Cal/76	145559	656/Cal/77	156347	730/Del/80	155927
1951/Cal/76	145560	712/Cal/77	155947	746/Del/80	155133
1964/Cal/76	155731	713/Cal/77	156057	761/Del/80	155134
2015/Cal/76	155833	766/Cal/77	155948	763/Del/80	155354
2031/Cal/76	155834	793/Cal/77	155949	764/Del/80	155135
2056/Cal/76	155732	798/Cal/77	155950	766/Del/80	155136
2057/Cal/76	155745	800/Cal/77	155951	768/Del/80	155915
2080/Cal/76	145577	833/Cal/77	156431	774/Del/80	155139
2081/Cal/76	145589	949/Cal/77	156060	776/Del/80	155177
2149/Cal/76	155746	1978		778/Del/80	155296
2171/Cal/76	156423			789/Del/80	155297
2172/Cal/76	155897	543/Del/78	155952	812/Del/80	155715
2181/Cal/76	155326	544/Del/78	155953	814/Del/80	155138
2192/Cal/76	155825	1979		816/Del/80	155139
2213/Cal/76	155826	249/Cal/79	156417	819/Del/80	155140
2222/Cal/76	145526	486/Cal/79	155562	827/Del/80	155141
2223/Cal/76	156415	109/Del/79	155714	829/Del/80	155142
2225/Cal/76	155827	119/Del/79	156416	836/Del/80	155143
2245/Cal/76	156424			843/Del/80	155205
2246/Cal/76	145707	632/Del/79	156067	847/Del/80	155936
2247/Cal/76	145669	693/Del/79	155294	848/Del/80	155206
2248/Cal/76	155828	754/Del/79	155926	849/Del/80	155144
2274/Cal/76	155829	841/Del/79	155914	851/Del/80	155145
2288/Cal/76	145527	947/Del/79	156151	863/Del/80	156773
1977		1980		864/Del/80	156774
7/Cal/77	155292			865/Del/80	155146
28/Cal/77	155269	63/Cal/80	156678	866/Del/80	155147
49/Cal/77	155327	133/Cal/80	155769	871/Del/80	155178
55/Cal/77	145697	308/Cal/80	155337	873/Del/80	155148
59/Cal/77	155286	757/Cal/80	155260	877/Del/80	155149
88/Cal/77	155733	883/Cal/80	155226	878/Del/80	155207
		909/Cal/80	155261		

1980 (Contd.)	1981 (Contd.)	1981 (Contd.)	1981 (Contd.)
880/Del/80	155150	455/Cal/81	155396
886/Del/80	155179	462/Cal/81	155482
888/Del/80	155151	485/Cal/81	155424
889/Del/80	155152	493/Cal/81	156040
890/Del/80	155153	494/Cal/81	155374
892/Del/80	155154	510/Cal/81	155680
893/Del/80	155155	515/Cal/81	155193
894/Del/80	155156	518/Cal/81	155231
895/Del/80	155157	519/Cal/81	155434
896/Del/80	155158	521/Cal/81	155674
901/Del/80	155180	527/Cal/81	155339
902/Del/80	155181	529/Cal/81	155107
905/Del/80	156775	537/Cal/81	155454
906/Del/80	155208	544/Cal/81	155426
907/Del/80	155182	548/Cal/81	155455
910/Del/80	155159	567/Cal/81	155279
912/Del/80	155183	575/Cal/81	155456
915/Del/80	155209	581/Cal/81	153585
918/Del/80	155210	587/Cal/81	155331
919/Del/80	155160	588/Cal/81	155375
920/Del/80	155161	592/Cal/81	155417
921/Del/80	155185	596/Cal/81	155551
923/Del/80	156535	598/Cal/81	155457
924/Del/80	155298	636/Cal/81	155497
925/Del/80	155299	654/Cal/81	155498
929/Del/80	155185	655/Cal/81	155499
931/Del/80	155186	671/Cal/81	155869
933/Del/80	155317	676/Cal/81	155458
934/Del/80	155211	677/Cal/81	155108
		681/Cal/81	156866
		714/Cal/81	155681
		724/Cal/81	155675
		744/Cal/81	155389
1981		745/Cal/81	155964
17/Cal/81	155387	751/Cal/81	156315
18/Cal/81	155163	762/Cal/81	155608
161/Cal/81	155623	767/Cal/81	156563
162/Cal/81	155688	771/Cal/81	155418
167/Cal/81	155688	778/Cal/81	155397
171/Cal/81	155189	783/Cal/81	155398
184/Cal/81	155410	786/Cal/81	155293
192/Cal/81	156300	790/Cal/81	155168
204/Cal/81	155164	795/Cal/81	155483
215/Cal/81	156119	797/Cal/81	155365
231/Cal/81	155173	806/Cal/81	156867
234/Cal/81	155553	816/Cal/81	155676
243/Cal/81	155227	830/Cal/81	155350
256/Cal/81	155347	837/Cal/81	155566
262/Cal/81	155554	841/Cal/81	156282
263/Cal/81	155472	842/Cal/81	156007
278/Cal/81	155669	847/Cal/81	155682
279/Cal/81	155392	851/Cal/81	155390
295/Cal/81	155165	853/Cal/81	155656
304/Cal/81	155228	855/Cal/81	155459
309/Cal/81	155492	865/Cal/81	155626
316/Cal/81	156404	868/Cal/81	155590
322/Cal/81	155166	879/Cal/81	156502
323/Cal/81	155840	893/Cal/81	156503
330/Cal/81	155372	903/Cal/81	156476
385/Cal/81	155102	904/Cal/81	155567
387/Cal/81	155103	905/Cal/81	155460
396/Cal/81	155747	909/Cal/81	156464
407/Cal/81	156377	911/Cal/81	155109
422/Cal/81	155196	933/Cal/81	155110
435/Cal/81	155229	940/Cal/81	
436/Cal/81	155433	963/Cal/81	
437/Cal/81	155493		
438/Cal/81	155607		

1981 (Contd.)	1981 (Contd.)	1981 (Contd.)	1981 (Contd.)
1179/Cal/81	156348	1355/Cal/81	156872
1186/Cal/81	155111	1360/Cal/81	155428
1194/Cal/81	155112	1361/Cal/81	155466
1197/Cal/81	156868	1362/Cal/81	155683
1200/Cal/81	155568	1363/Cal/81	155572
1201/Cal/81	155461	1368/Cal/81	156285
1206/Cal/81	156284	1370/Cal/81	155845
1211/Cal/81	156869	1372/Cal/81	155467
1212/Cal/81	156477	1373/Cal/81	155405
1213/Cal/81	155842	1376/Cal/81	155870
1217/Cal/81	155462	1378/Cal/81	155468
1220/Cal/81	156500	1382/Cal/81	155846
1222/Cal/81	156008	1384/Cal/81	155684
1225/Cal/81	155501	1386/Cal/81	156608
1226/Cal/81	155419	1389/Cal/81	155573
1228/Cal/81	155569	1392/Cal/81	155195
1235/Cal/81	155340	1393/Cal/81	155113
1236/Cal/81	155640	1396/Cal/81	156465
1237/Cal/81	155555	1397/Cal/81	155114
1241/Cal/81	156520	1398/Cal/81	155115
1242/Cal/81	156436	1399/Cal/81	155685
1243/Cal/81	155748	1400/Cal/81	156636
1245/Cal/81	155399	1408/Cal/81	156444
1247/Cal/81	156554	1411/Cal/81	156593
1251/Cal/81	155463	1412/Cal/81	155847
1256/Cal/81	156870	1420/Cal/81	156872
1259/Cal/81	156234	1427/Cal/81	155699
1260/Cal/81	155657	1428/Cal/81	155609
1261/Cal/81	156080	1429/Cal/81	155571
1262/Cal/81	156092	1430/Cal/81	155628
1264/Cal/81	155400	1431/Cal/81	155791
1269/Cal/81	155843	1436/Cal/81	156146
1272/Cal/81	156987	1437/Cal/81	156009
1273/Cal/81	155401	1442/Cal/81	156851
1277/Cal/81	156235	1443/Cal/81	155367
1278/Cal/81	156442	1444/Cal/81	155406
1279/Cal/81	155402	1445/Cal/81	156120
1281/Cal/81	156310	1446/Cal/81	155642
1283/Cal/81	156530	1447/Cal/81	155469
1284/Cal/81	156807	1448/Cal/81	156691
1285/Cal/81	155464	1449/Cal/81	156874
1286/Cal/81	155403	1451/Cal/81	155470
1287/Cal/81	155194	1456/Cal/81	155575
1288/Cal/81	156443	1458/Cal/81	155770
1300/Cal/81	155570	1459/Cal/81	155771
1304/Cal/81	155790	1461/Cal/81	155471
1309/Cal/81	156660	1462/Cal/81	156041
1312/Cal/81	155965	1463/Cal/81	156081
1314/Cal/81	155465	1464/Cal/81	155576
1315/Cal/81	155366	33/Bom/81	155241
1317/Cal/81	156133	172/Bom/81	155489
1320/Cal/81	155988	198/Bom/81	155171
1322/Cal/81	155484	199/Bom/81	155172
1324/Cal/81	155886	212/Bom/81	155242
1328/Cal/81	155844	235/Bom/81	155755
1329/Cal/81	155989	237/Bom/81	155243
1331/Cal/81	155627	239/Bom/81	155432
1333/Cal/81	155571	240/Bom/81	155756
1336/Cal/81	155641	249/Bom/81	155244
1337/Cal/81	155420	255/Bom/81	155757
1339/Cal/81	155990	261/Bom/81	155982
1340/Cal/81	156104	262/Bom/81	155983
1348/Cal/81	155280	265/Bom/81	155758
1349/Cal/81	155404	267/Bom/81	155759
1352/Cal/81	156871	272/Bom/81	155240
1353/Cal/81	155697		
		288/Bom/81	155342
		303/Bom/81	155439
		304/Bom/81	155490
		314/Bom/81	156023
		316/Bom/81	155245
		319/Bom/81	155921
		321/Bom/81	156188
		332/Bom/81	155922
		334/Bom/81	155859
		338/Bom/81	155246
		339/Bom/81	155247
		349/Bom/81	155923
		135/Mas/81	155218
		143/Mas/81	155219
		151/Mas/81	156049
		167/Mas/81	156050
		171/Mas/81	155712
		190/Mas/81	155601
		205/Mas/81	155220
		207/Mas/81	155314
		209/Mas/81	155221
		216/Mas/81	155602
		218/Mas/81	155603
		222/Mas/81	155222
		223/Mas/81	155604
		225/Mas/81	155223
		231/Mas/81	155224
		2/Bom/81	155975
		3/Bom/81	155255
		4/Bom/81	155256
		8/Bom/81	155318
		9/Bom/81	155212
		10/Bom/81	155300
		18/Bom/81	155257
		23/Bom/81	155301
		25/Bom/81	155302
		28/Bom/81	155303
		30/Bom/81	155304
		31/Bom/81	155319
		35/Bom/81	155376
		37/Bom/81	155305
		38/Bom/81	155320
		43/Bom/81	155321
		46/Bom/81	155778
		47/Bom/81	155976
		48/Bom/81	155322
		49/Bom/81	155323
		53/Bom/81	155616
		54/Bom/81	155324
		56/Bom/81	155325
		58/Bom/81	155377
		60/Bom/81	155355
		62/Bom/81	156024
		63/Bom/81	155617
		64/Bom/81	155356
		65/Bom/81	155357
		66/Bom/81	155358
		68/Bom/81	155306
		71/Bom/81	155718
		73/Bom/81	155359
		74/Bom/81	155360
		75/Bom/81	155213
		81/Bom/81	155361
		82/Bom/81	155440
		83/Bom/81	155378
		86/Bom/81	155362

1981 (Contd.)		1981 (Contd.)		1981 (Contd.)	
87/Del/81	155379	192/Del/81	155786	307/Del/81	155930
91/Del/81	156004	193/Del/81	155787	313/Del/81	155931
92/Del/81	155618	194/Del/81	155808	315/Del/81	156776
93/Del/81	155619	196/Del/81	155809	316/Del/81	156070
94/Del/81	155441	197/Del/81	155860	317/Del/81	155932
95/Del/81	155380	198/Del/81	155916	318/Del/81	156071
96/Del/81	155307	202/Del/81	155811	319/Del/81	156367
97/Del/81	155381	203/Del/81	156836	321/Del/81	156159
101/Del/81	155620	211/Del/81	155812	326/Del/81	156160
103/Del/81	155308	213/Del/81	155879	327/Del/81	156161
105/Del/81	155633	214/Del/81	155880	328/Del/81	156162
107/Del/81	155442	215/Del/81	156027	330/Del/81	156206
108/Del/81	155443	216/Del/81	155881	331/Del/81	156207
113/Del/81	155382	218/Del/81	155861	332/Del/81	156208
115/Del/81	155779	219/Del/81	155882	333/Del/81	156216
116/Del/81	155444	220/Del/81	155852	335/Del/81	156209
117/Del/81	155445	223/Del/81	155883	336/Del/81	156210
118/Del/81	155383	224/Del/81	156129	337/Del/81	156211
119/Del/81	155446	225/Del/81	155884	341/Del/81	156212
120/Del/81	155447	228/Del/81	155886	343/Del/81	156837
121/Del/81	155634	232/Del/81	155887	344/Del/81	155937
123/Del/81	155589	233/Del/81	155888	347/Del/81	156385
126/Del/81	155664	235/Del/81	155889	348/Del/81	155621
130/Del/81	155384	238/Del/81	156130	349/Del/81	155600
132/Del/81	155385	239/Del/81	155917	350/Del/81	156457
133/Del/81	155448	240/Del/81	155890	351/Del/81	156323
134/Del/81	155449	241/Del/81	155918	352/Del/81	156217
135/Del/81	155780	242/Del/81	155891	353/Del/81	156163
136/Del/81	155781	243/Del/81	155977	356/Del/81	156164
137/Del/81	155782	244/Del/81	155978	357/Del/81	156458
138/Del/81	155590	246/Del/81	155788	358/Del/81	156459
139/Del/81	155997	248/Del/81	156153	359/Del/81	156536
142/Del/81	155591	249/Del/81	155919	362/Del/81	156072
145/Del/81	155998	250/Del/81	156131	364/Del/81	156975
146/Del/81	155592	251/Del/81	156117	365/Del/81	156976
147/Del/81	155593	252/Del/81	156118	366/Del/81	156977
149/Del/81	155594	253/Del/81	156028	371/Del/81	156537
150/Del/81	155595	254/Del/81	155720	373/Del/81	156777
155/Del/81	155635	255/Del/81	155721	378/Del/81	156460
156/Del/81	155309	256/Del/81	156068	379/Del/81	156778
157/Del/81	155665	257/Del/81	156154	381/Del/81	156132
158/Del/81	155596	258/Del/81	156205	383/Del/81	155622
160/Del/81	155597	259/Del/81	156029	387/Del/81	156218
163/Del/81	155999	262/Del/81	155928	388/Del/81	156461
164/Del/81	155716	264/Del/81	156155	389/Del/81	155938
165/Del/81	155783	265/Del/81	155863	390/Del/81	156219
166/Del/81	155717	268/Del/81	156213	391/Del/81	156220
167/Del/81	155636	269/Del/81	156030	393/Del/81	156221
168/Del/81	155637	270/Del/81	156031	394/Del/81	155939
169/Del/81	155878	271/Del/81	155598	395/Del/81	156324
170/Del/81	155638	272/Del/81	156372	396/Del/81	156222
172/Del/81	155666	274/Del/81	156214	397/Del/81	156087
174/Del/81	156054	276/Del/81	156215	398/Del/81	156088
175/Del/81	155667	278/Del/81	156032	399/Del/81	156073
176/Del/81	156025	279/Del/81	156156	401/Del/81	156165
177/Del/81	156126	288/Del/81	156373	405/Del/81	156538
179/Del/81	155668	289/Del/81	155864	406/Del/81	156539
180/Del/81	156152	290/Del/81	155892	408/Del/81	156462
182/Del/81	156127	291/Del/81	155893	409/Del/81	156463
183/Del/81	155719	292/Del/81	156358	412/Del/81	156838
184/Del/81	156026	294/Del/81	156033	414/Del/81	156839
185/Del/81	156204	295/Del/81	156157	418/Del/81	156840
186/Del/81	155784	300/Del/81	156034	420/Del/81	156540
187/Del/81	156000	301/Del/81	155929	425/Del/81	156779
188/Del/81	156128	302/Del/81	156069	427/Del/81	156780
189/Del/81	155785	303/Del/81	156158	428/Del/81	156541
		305/Del/81	155599	431/Del/81	156542

1981 (Contd.)	1981 (Contd.)	1981 (Contd.)	1982 (Contd.)
432/Del/81	156978	596/Del/81	157013
434/Del/81	156543	597/Del/81	157014
435/Del/81	156781	598/Del/81	157015
436/Del/81	156782	599/Del/81	157016
437/Del/81	156783	622/Del/81	156910
439/Del/81	156784	624/Del/81	156911
440/Del/81	156785	631/Del/81	156912
443/Del/81	156792	935/Del/81	155789
444/Del/81	156793	1982	
448/Del/81	156794	9/Cal/82	156294
449/Del/81	156841	11/Cal/82	156182
450/Del/81	156795	12/Cal/82	155848
458/Del/81	156796	13/Cal/82	155116
460/Del/81	156797	15/Cal/82	155699
462/Del/81	156842	17/Cal/82	156005
464/Del/81	156798	21/Cal/82	155836
468/Del/81	156799	23/Cal/82	155368
470/Del/81	156843	25/Cal/82	156251
471/Del/81	156800	26/Cal/82	155700
472/Del/81	156844	27/Cal/82	155232
480/Del/81	156845	28/Cal/82	155472
481/Del/81	156846	30/Cal/82	156134
482/Del/81	156801	32/Cal/82	155577
485/Del/81	156812	33/Cal/82	156437
486/Del/81	156847	35/Cal/82	155958
487/Del/81	156979	36/Cal/82	155625
488/Del/81	156848	37/Cal/82	156093
489/Del/81	156813	40/Cal/82	156147
495/Del/81	156849	41/Cal/82	156637
497/Del/81	156980	42/Cal/82	156286
499/Del/81	156850	44/Cal/82	156913
511/Del/81	156876	47/Cal/82	156950
513/Del/81	156877	49/Cal/82	156914
517/Del/81	156878	54/Cal/82	156531
520/Del/81	156981	61/Cal/82	156875
521/Del/81	156544	63/Cal/82	156888
522/Del/81	156879	64/Cal/82	156915
523/Del/81	156982	68/Cal/82	156701
525/Del/81	156880	70/Cal/82	155792
527/Del/81	156881	74/Cal/82	155793
530/Del/81	156882	75/Cal/82	156702
531/Del/81	156983	77/Cal/82	155435
534/Del/81	156883	79/Cal/82	156693
535/Del/81	156884	80/Cal/82	156274
538/Del/81	156886	82/Cal/82	156653
541/Del/81	156887	85/Cal/82	156135
546/Del/81	156885	86/Cal/82	155578
548/Del/81	156814	87/Cal/82	155956
551/Del/81	156815	89/Cal/82	156305
552/Del/81	156903	93/Cal/82	155233
553/Del/81	156904	94/Cal/82	156082
554/Del/81	156984	95/Cal/82	155837
555/Del/81	156985	96/Cal/82	155643
556/Del/81	156905	98/Cal/82	155629
558/Del/81	156986	99/Cal/82	155849
561/Del/81	156906	100/Cal/82	156609
565/Del/81	156907	102/Cal/82	155794
567/Del/81	156816	104/Cal/82	156308
568/Del/81	156908	110/Cal/82	156042
574/Del/81	156909	111/Cal/82	155959
577/Del/81	157006	113/Cal/82	155686
580/Del/81	157007	115/Cal/82	155391
583/Del/81	157008	116/Cal/82	156010
589/Del/81	157009	119/Cal/82	156076
591/Del/81	157010	121/Cal/82	156852
592/Del/81	157011	122/Cal/82	155687
595/Del/81	157012	123/Cal/82	155960
		127/Cal/82	155556
			157013
			157014
			157015
			157016
			156910
			156911
			156912
			155789
			156294
			156182
			155848
			155116
			155699
			156005
			155836
			155368
			156251
			155700
			155232
			155472
			156134
			155577
			156437
			155958
			155625
			156093
			156147
			156637
			156286
			156913
			156950
			156914
			156531
			156875
			156888
			156915
			156701
			155792
			155793
			156702
			155435
			156693
			156274
			156653
			156135
			155578
			155956
			156305
			155233
			156082
			155837
			155643
			155629
			155849
			156609
			155794
			156308
			156042
			155959
			155686
			155391
			156010
			156076
			156852
			155687
			155960
			155556
			157013
			157014
			157015
			157016
			156910
			156911
			156912
			155789
			156294
			156182
			155848
			155116
			155699
			156005
			155836
			155368
			156251
			155700
			155232
			155472
			156134
			155577
			156437
			155958
			155625
			156093
			156147
			156637
			156286
			156913
			156950
			156914
			156531
			156875
			156888
			156915
			156701
			155792
			155793
			156702
			155435
			156693
			156274
			156653
			156135
			155578
			155956
			156305
			155233
			156082
			155837
			155643
			155629
			155849
			156609
			155794
			156308
			156042
			155959
			155686
			155391
			156010
			156076
			156852
			155687
			155960
			155556
			157013
			157014
			157015
			157016
			156910
			156911
			156912
			155789
			156294
			156182
			155848
			155116
			155699
			156005
			155836
			155368
			156251
			155700
			155232
			155472
			156134
			155577
			156437
			155958
			155625
			156093
			156147
			156637
			156286
			156913
			156950
			156914
			156531
			156875
			156888
			156915
			156701
			155792
			155793
			156702
			155435
			156693
			156274
			156653
			156135
			155578
			155956
			156305
			155233
			156082
			155837
			155643
			155629
			155849
			156609
			155794
			156308
			156042
			155959
			155686
			155391
			156010
			156076
			156852
			155687
			155960
			155556
			157013
			157014
			157015
			157016
			156910
			156911
			156912
			155789
			156294
			156182
			155848
			155116
			155699
			156005
			155836
			155368
			156251
			155700
			155232
			155472
			156134
			155577
			156437
			155958
			155625
			156093
			156147
			156637
			156286
			156913
			156950
			156914
			156531
			156875
			156888
			156915
			156701
			155792
			155793
			156702
			155435
			156693
			156274
			156653
			156135
			155578
			155956
			156305
			155233
			156082
			155837
			155643
			155629
			155849
			156609
			155794
			156308
			156042
			155959
			155686
			155391
			156010
			156076
			156852
			155687
			155960
			155556
			157013
			157014
			157015
			157016
			156910
			156911
			156912
			155789
			156294
			156182
			155848
			155116
			155699
			156005
			155836
			155368
			156251
			155700
			155232
			155472
			156134
			155577
			156437
			155958
			155625
			156093
			156147
		</	

1982 (Contd.)

275/Cal/82	156488
276/Cal/82	156510
283/Cal/82	156077
285/Cal/82	156695
286/Cal/82	155118
287/Cal/82	156432
290/Cal/82	156966
291/Cal/82	156594
295/Cal/82	156306
301/Cal/82	155853
303/Cal/82	156917
304/Cal/82	155169
306/Cal/82	156011
307/Cal/82	155969
308/Cal/82	156105
309/Cal/82	156595
310/Cal/82	156723
311/Cal/82	156006
315/Cal/82	155425
316/Cal/82	156638
319/Cal/82	156097
320/Cal/82	155196
321/Cal/82	156236
322/Cal/82	156287
331/Cal/82	156237
332/Cal/82	156734
336/Cal/82	156928
337/Cal/82	156139
338/Cal/82	155796
340/Cal/82	156802
341/Cal/82	156447
345/Cal/82	156405
353/Cal/82	156891
354/Cal/82	156106
355/Cal/82	156392
356/Cal/82	156123
360/Cal/82	156471
361/Cal/82	156012
362/Cal/82	156989
364/Cal/82	155197
367/Cal/82	156078
370/Cal/82	156918
371/Cal/82	156098
379/Cal/82	155502
383/Cal/82	155773
388/Cal/82	156853
391/Cal/82	156140
392/Cal/82	155369
393/Cal/82	156296
394/Cal/82	155272
395/Cal/82	156856
397/Cal/82	155436
401/Cal/82	155689
408/Cal/82	156099
412/Cal/81	156473
413/Cal/82	155872
415/Cal/82	156967
416/Cal/82	156489
422/Cal/82	156062
424/Cal/82	156013
425/Cal/82	155407
426/Cal/82	155797
427/Cal/82	155970
428/Cal/82	156484

1982 (Contd.)

429/Cal/82	156378
434/Cal/82	155660
435/Cal/82	156438
439/Cal/82	155474
442/Cal/82	155429
444/Cal/82	155692
445/Cal/82	156892
446/Cal/82	156663
458/Cal/82	155198
462/Cal/82	155472
464/Cal/82	156857
467/Cal/82	155798
473/Cal/82	155961
477/Cal/82	155873
478/Cal/82	155580
479/Cal/82	155753
480/Cal/82	156485
486/Cal/82	156107
487/Cal/82	155799
488/Cal/82	156349
493/Cal/82	156402
494/Cal/82	156108
495/Cal/82	155475
496/Cal/82	155874
497/Cal/82	156199
498/Cal/82	156681
499/Cal/82	156124
500/Cal/82	156664
501/Cal/82	156639
502/Cal/82	155630
503/Cal/82	156919
505/Cal/82	156448
506/Cal/82	155613
507/Cal/82	156147
508/Cal/82	155370
511/Cal/82	156654
512/Cal/82	156100
513/Cal/82	156350
514/Cal/82	156014
515/Cal/82	156596
516/Cal/82	156858
521/Cal/82	156511
528/Cal/82	156826
531/Cal/82	156968
532/Cal/82	156369
534/Cal/82	156015
535/Cal/82	155371
539/Cal/82	156803
540/Cal/82	155800
543/Cal/82	156311
545/Cal/82	156969
546/Cal/82	156970
547/Cal/82	156100
549/Cal/82	155962
550/Cal/82	156786
551/Cal/82	155267
552/Cal/82	155282
556/Cal/82	156479
557/Cal/82	155992
560/Cal/82	156665
561/Cal/82	155614
563/Cal/82	156379
564/Cal/82	156469
567/Cal/82	155963
568/Cal/82	156556
569/Cal/82	156245

1982 (Contd.)

571/Cal/82	155801
572/Cal/82	155581
573/Cal/82	156971
574/Cal/82	155882
575/Cal/82	156557
576/Cal/82	155875
577/Cal/82	155802
578/Cal/82	156666
580/Cal/82	156044
582/Cal/82	156597
583/Cal/82	156490
584/Cal/82	156640
585/Cal/82	156275
586/Cal/82	156893
587/Cal/82	156894
588/Cal/82	156895
589/Cal/82	156641
590/Cal/82	155408
593/Cal/82	156598
595/Cal/82	156150
596/Cal/82	155631
597/Cal/82	156920
601/Cal/82	156922
602/Cal/82	156439
605/Cal/82	156016
608/Cal/82	155199
611/Cal/82	156184
619/Cal/82	156667
621/Cal/82	155877
622/Cal/82	156990
623/Cal/82	156110
624/Cal/82	156312
627/Cal/82	155803
628/Cal/82	156393
629/Cal/82	156316
631/Cal/82	156307
632/Cal/82	155752
636/Cal/82	155690
637/Cal/82	156321
638/Cal/82	155119
640/Cal/82	156512
643/Cal/82	156200
644/Cal/82	156859
647/Cal/82	155430
648/Cal/82	156896
653/Cal/82	156474
654/Cal/82	155993
657/Cal/82	156496
659/Cal/82	156599
660/Cal/82	156600
661/Cal/82	156380
662/Cal/82	156611
663/Cal/82	126724
664/Cal/82	155274
675/Cal/82	156696
676/Cal/82	155876
678/Cal/82	155691
679/Cal/82	156297
680/Cal/82	156408
685/Cal/82	155237
688/Cal/82	156601
690/Cal/82	155854
691/Cal/82	156351

1982 (Contd.)	1982 (Contd.)	1982 (Contd.)
693/Cal/82	156433	855/Cal/82
694/Cal/82	156238	856/Cal/82
695/Cal/82	155503	859/Cal/82
697/Cal/82	156757	861/Cal/82
698/Cal/82	156758	863/Cal/82
701/Cal/82	156991	867/Cal/82
704/Cal/82	156449	869/Cal/82
710/Cal/82	156923	870/Cal/82
711/Cal/82	156558	873/Cal/82
713/Cal/82	156466	877/Cal/82
719/Cal/82	156513	879/Cal/82
720/Cal/82	156804	881/Cal/82
721/Cal/82	156514	885/Cal/82
722/Cal/82	155645	886/Cal/82
723/Cal/82	156668	887/Cal/82
724/Cal/82	156929	890/Cal/82
726/Cal/82	156860	891/Cal/82
727/Cal/82	156697	894/Cal/82
728/Cal/82	156602	899/Cal/82
729/Cal/82	155695	903/Cal/82
730/Cal/82	156317	907/Cal/82
731/Cal/82	155120	913/Cal/82
733/Cal/82	156921	914/Cal/82
734/Cal/82	156017	917/Cal/82
741/Cal/82	156425	921/Cal/82
747/Cal/82	156532	922/Cal/82
751/Cal/82	155804	923/Cal/82
754/Cal/82	156827	924/Cal/82
755/Cal/82	156698	925/Cal/82
759/Cal/82	156725	926/Cal/82
761/Cal/82	156686	927/Cal/82
764/Cal/82	155693	928/Cal/82
765/Cal/82	156018	929/Cal/82
766/Cal/82	156246	930/Cal/82
773/Cal/82	155170	934/Cal/82
776/Cal/82	156185	935/Cal/82
779/Cal/82	156288	936/Cal/82
781/Cal/82	156201	937/Cal/82
782/Cal/82	155341	939/Cal/82
783/Cal/82	155238	940/Cal/82
784/Cal/82	156395	942/Cal/82
787/Cal/82	156861	943/Cal/82
797/Cal/82	156368	946/Cal/82
800/Cal/82	155275	950/Cal/82
802/Cal/82	156972	951/Cal/82
803/Cal/82	156318	952/Cal/82
806/Cal/82	156924	955/Cal/82
812/Cal/82	156487	959/Cal/82
815/Cal/82	155971	964/Cal/82
817/Cal/82	155488	966/Cal/82
818/Cal/82	156992	967/Cal/82
821/Cal/82	155496	975/Cal/82
824/Cal/82	156381	976/Cal/82
825/Cal/82	155972	977/Cal/82
828/Cal/82	156515	978/Cal/82
829/Cal/82	156486	980/Cal/82
830/Cal/82	156926	982/Cal/82
831/Cal/82	156478	984/Cal/82
832/Cal/82	155994	986/Cal/82
833/Cal/82	155431	989/Cal/82
836/Cal/82	156497	995/Cal/82
839/Cal/82	156669	999/Cal/82
840/Cal/82	156352	1000/Cal/82
841/Cal/82	155558	1002/Cal/82
851/Cal/82	155646	1010/Cal/82
852/Cal/82	156897	1012/Cal/82
		156925
		156993
		156994
		156276
		156927
		156898
		156951
		155268
		156533
		156019
		156603
		15695
		156141
		156298
		156247
		15645
		156534
		156470
		156516
		156582
		156472
		156670
		156239
		156726
		156759
		156760
		156761
		156762
		156763
		156995
		156996
		156787
		156248
		156953
		156899
		156406
		156900
		156901
		155754
		155647
		156642
		156655
		156727
		156186
		156687
		156902
		155121
		156688
		156828
		156703
		155957
		156643
		156249
		156764
		155696
		156683
		156440
		156829
		156498
		156954
		156955
		156240
		156252
		155476
		156821
		155283
		1013/Cal/82
		1022/Cal/82
		1029/Cal/82
		1034/Cal/82
		1037/Cal/82
		1038/Cal/82
		1042/Cal/82
		1043/Cal/82
		1047/Cal/82
		1048/Cal/82
		1049/Cal/82
		1052/Cal/82
		1057/Cal/82
		1058/Cal/82
		1060/Cal/82
		1062/Cal/82
		1063/Cal/82
		1068/Cal/82
		1069/Cal/82
		1074/Cal/82
		1078/Cal/82
		1081/Cal/82
		1083/Cal/82
		1092/Cal/82
		1097/Cal/82
		1098/Cal/82
		1100/Cal/82
		1102/Cal/82
		1103/Cal/82
		1104/Cal/82
		1108/Cal/82
		1111/Cal/82
		1113/Cal/82
		1117/Cal/82
		1125/Cal/82
		1131/Cal/82
		1135/Cal/82
		1139/Cal/82
		1141/Cal/82
		1142/Cal/82
		1143/Cal/82
		1149/Cal/82
		1152/Cal/82
		1156/Cal/82
		1159/Cal/82
		1163/Cal/82
		1167/Cal/82
		1176/Cal/82
		1177/Cal/82
		1178/Cal/82
		1179/Cal/82
		1182/Cal/82
		1185/Cal/82
		1187/Cal/82
		1191/Cal/82
		1193/Cal/82
		1196/Cal/82
		1197/Cal/82
		1203/Cal/82
		1205/Cal/82
		1208/Cal/82
		1219/Cal/82
		1220/Cal/82
		1221/Cal/82
		1224/Cal/82
		1226/Cal/82
		1227/Cal/82
		156370
		155855
		156956
		156604
		156187
		126728
		155583
		155584
		156504
		156822
		156656
		156657
		156823
		156517
		156957
		156765
		156605
		156277
		156451
		156997
		156289
		156319
		156766
		156958
		156644
		156445
		156998
		156452
		156521
		156559
		156006
		156253
		156862
		156500
		155615
		156396
		156491
		156959
		156689
		156020
		156499
		156397
		156522
		156523
		157000
		156699
		156960
		156021
		155200
		155201
		155552
		156767
		156999
		155281
		156671
		156729
		155694
		155587
		156672
		156768
		156830
		156278
		156250
		156863
		156961
		156930
		156480

1982 (Contd.)		1982 (Contd.)		1982 (Contd.)	
1228/Cal/82	156524	1445/Cal/82	156962	161/Bom/82	156223
1229/Cal/82	156973	1451/Cal/82	155585	162/Bom/82	156224
1230/Cal/82	155648	1452/Cal/82	156963	163/Bom/82	156361
1231/Cal/82	155649	1462/Cal/82	156648	164/Bom/82	156362
1232/Cal/82	155650	1463/Cal/82	156505	165/Bom/82	156574
1233/Cal/82	155651	1467/Cal/82	156320	167/Bom/82	156737
1234/Cal/82	155652	1469/Cal/82	157004	168/Bom/82	155925
1235/Cal/82	155653	1470/Cal/82	156935	169/Bom/82	156575
1236/Cal/82	155703	1473/Cal/82	156125	170/Bom/82	156374
1237/Cal/82	156301	1476/Cal/82	156045	174/Bom/82	156196
1243/Cal/82	157001	1479/Cal/82	156468	175/Bom/82	155217
1244/Cal/82	156612	1495/Cal/82	157005	177/Bom/82	156576
1245/Cal/82	157002	1500/Cal/82	156506	182/Bom/82	156366
1247/Cal/82	156831	1507/Cal/82	155995	191/Bom/82	156577
1248/Cal/82	156730	1508/Cal/82	156254	192/Bom/82	156578
1254/Cal/82	156645	1509/Cal/82	156255	193/Bom/82	156389
1256/Cal/82	156788	1514/Cal/82	155437	195/Bom/82	156579
1257/Cal/82	156931	10/Bom/82	155215	197/Bom/82	156580
1258/Cal/82	155704	12/Bom/82	155984	200/Bom/82	156581
1274/Cal/82	156932	14/Bom/82	156566	201/Bom/82	156582
1276/Cal/82	155559	21/Bom/82	155606	203/Bom/82	156583
1277/Cal/82	156382	22/Bom/82	155243	204/Bom/82	156584
1280/Cal/82	156646	27/Bom/82	155707	205/Bom/82	155216
1285/Cal/82	156647	29/Bom/82	156172	212/Bom/82	156363
1286/Cal/82	156805	32/Bom/82	156747	214/Bom/82	156585
1290/Cal/82	157003	34/Bom/82	156567	215/Bom/82	156738
1291/Cal/82	156806	35/Bom/82	156568	219/Bom/82	155122
1307/Cal/82	156832	37/Bom/82	155214	221/Bom/82	156259
1308/Cal/82	155560	38/Bom/82	155985	222/Bom/82	156938
1309/Cal/82	155561	39/Bom/82	156173	224/Bom/82	156260
1311/Cal/82	156673	43/Bom/82	156337	225/Bom/82	156175
1317/Cal/82	156974	51/Bom/82	155761	226/Bom/82	156176
1320/Cal/82	155661	53/Bom/82	156036	227/Bom/82	156177
1336/Cal/82	156937	54/Bom/82	155174	228/Bom/82	156178
1339/Cal/82	156525	58/Bom/82	156569	229/Bom/82	156586
1341/Cal/82	156700	60/Bom/82	155865	231/Bom/82	156053
1342/Cal/82	156561	69/Bom/82	156174	233/Bom/82	156390
1346/Cal/82	156279	70/Bom/82	155924	234/Bom/82	156364
1355/Cal/82	156933	71/Bom/82	155894	235/Bom/82	156740
1358/Cal/82	156453	73/Bom/82	155175	237/Bom/82	155895
1359/Cal/82	156658	75/Bom/82	155708	243/Bom/82	155123
1361/Cal/82	156674	81/Bom/82	156570	244/Bom/82	155124
1362/Cal/82	156675	83/Bom/82	155762	245/Bom/82	155125
1370/Cal/82	156353	86/Bom/82	155709	246/Bom/82	155126
1373/Cal/82	156676	96/Bom/82	155866	247/Bom/82	155249
1377/Cal/82	156313	90/Bom/82	155176	248/Bom/82	155935
1383/Cal/82	156690	85/Bom/82	155866	249/Bom/82	156225
1384/Cal/82	156934	98/Bom/82	155764	251/Bom/82	156179
1391/Cal/82	156819	102/Bom/82	156189	255/Bom/82	156741
1397/Cal/82	156864	103/Bom/82	156571	258/Bom/82	156939
1398/Cal/82	156865	111/Bom/82	156190	263/Bom/82	156940
1400/Cal/82	156526	116/Bom/82	156572	264/Bom/82	156231
1404/Cal/82	156111	117/Bom/82	156573	269/Bom/82	156261
1412/Cal/82	155477	123/Bom/82	156338	270/Bom/82	156742
1418/Cal/82	156467	133/Bom/82	155710	271/Bom/82	155934
1425/Cal/82	156063	136/Bom/82	156191	273/Bom/82	156365
1428/Cal/82	156769	140/Bom/82	156192	274/Bom/82	156243
1431/Cal/82	156731	143/Bom/82	156193	286/Bom/82	155760
1433/Cal/82	156202	144/Bom/82	155711	291/Bom/82	156341
1435/Cal/82	156354	145/Bom/82	155765	292/Bom/82	156743
1436/Cal/82	156481	146/Bom/82	156736	295/Bom/82	156226
1437/Cal/82	156613	148/Bom/82	156242	299/Bom/82	156180
1438/Cal/82	156454	152/Bom/82	156359	300/Bom/82	155639
1441/Cal/82	156112	153/Bom/82	156194	301/Bom/82	156745
1442/Cal/82	156562	155/Bom/82	156360	303/Bom/82	156587
1443/Cal/82	156482	158/Bom/82	156195	305/Bom/82	156746
		160/Bom/82	156340	307/Bom/82	156588

1982 (Contd.)	1982 (Contd.)	1982 (Contd.)	1983 (Contd.)
308/Bom/82	155896	185/Mas/82	156334
312/Bom/82	156262	192/Mas/82	156717
313/Bom/82	156197	194/Mas/82	156710
315/Bom/82	156589	197/Mas/82	156335
316/Bom/82	156342	201/Mas/82	156551
318/Bom/82	156227	204/Mas/82	156552
319/Bom/82	156590	206/Mas/82	156356
322/Bom/82	156391	224/Mas/82	156719
324/Bom/82	156748	231/Mas/82	156720
327/Bom/82	156250	232/Mas/82	156198
334/Bom/82	156591	256/Mas/82	156089
339/Bom/82	156941	258/Mas/82	156388
340/Bom/82	156181	11/Del/82	156817
343/Bom/82	156592	57/Del/82	155310
5/Mas/82	158813	60/Del/82	155979
12/Mas/82	156051	89/Del/82	155980
13/Mas/82	156052	175/Del/82	155981
15/Mas/82	156266	208/Del/82	156035
18/Mas/82	156308	275/Del/82	155311
19/Mas/82	156265	282/Del/82	155258
22/Mas/82	156167	310/Del/82	155312
23/Mas/82	156168	311/Del/82	155313
26/Mas/82	155814	639/Del/82	155259
27/Mas/82	156264	905/Del/82	156001
28/Mas/82	156328	1983	
31/Mas/82	156230	1/Cal/83	156649
41/Mas/82	156329	8/Cal/83	156677
42/Mas/82	156706	18/Cal/83	157017
43/Mas/82	156707	19/Cal/83	156732
57/Mas/82	155713	21/Cal/83	155203
58/Mas/82	156330	22/Cal/83	155202
65/Mas/82	156387	28/Cal/83	156614
66/Mas/82	156545	31/Cal/83	155662
67/Mas/82	156169	38/Cal/83	155838
68/Mas/82	156331	39/Cal/83	155284
77/Mas/82	156546	40/Cal/83	156113
78/Mas/82	156267	44/Cal/83	156101
79/Mas/82	155252	51/Cal/83	155996
80/Mas/82	156002	52/Cal/83	155933
82/Mas/82	156332	54/Cal/83	155663
83/Mas/82	155253	63/Cal/83	157018
84/Mas/82	155815	64/Cal/83	156290
87/Mas/82	156333	71/Cal/83	156142
88/Mas/82	156547	72/Cal/83	156302
89/Mas/82	156811	75/Cal/83	156475
100/Mas/82	156548	77/Cal/83	156291
112/Mas/82	156549	83/Cal/83	157019
117/Mas/82	156708	88/Cal/83	156143
123/Mas/82	156550	93/Cal/83	155654
131/Mas/82	156170	95/Cal/83	155774
133/Mas/82	156709	106/Cal/83	156114
136/Mas/82	156003	115/Cal/83	155905
139/Mas/82	155920	129/Cal/83	155856
141/Mas/82	156710	132/Cal/83	156684
142/Mas/82	155254	141/Cal/83	156383
147/Mas/82	156711	146/Cal/83	156808
148/Mas/82	156712	148/Cal/83	156256
151/Mas/82	155933	154/Cal/83	156022
157/Mas/82	156172	191/Cal/83	156833
160/Mas/82	155605	194/Cal/83	156483
166/Mas/82	156713	201/Cal/83	156292
167/Mas/82	156714	202/Cal/83	156303
169/Mas/82	156309	203/Cal/83	157020
170/Mas/82	156166	217/Cal/83	155974
172/Mas/82	156715	220/Cal/83	156371
179/Mas/82	156716	227/Cal/83	156733
		230/Cal/83	155857
		233/Cal/83	156304
		238/Cal/83	156047
		239/Cal/83	156043
		243/Cal/83	156518
		244/Cal/83	156355
		246/Cal/83	156770
		250/Cal/83	156398
		262/Cal/83	156299
		263/Cal/83	156079
		270/Cal/83	156789
		275/Cal/83	156820
		291/Cal/83	155705
		311/Cal/83	155276
		314/Cal/83	156519
		319/Cal/83	155775
		339/Cal/83	156492
		351/Cal/83	155858
		392/Cal/83	156064
		426/Cal/83	156257
		441/Cal/83	156455
		455/Cal/83	156434
		456/Cal/83	156527
		461/Cal/83	156102
		462/Cal/83	156735
		474/Cal/83	156809
		483/Cal/83	156810
		485/Cal/83	156203
		486/Cal/83	156650
		489/Cal/83	156790
		508/Cal/83	156834
		509/Cal/83	156704
		525/Cal/83	156528
		531/Cal/83	156258
		596/Cal/83	156685
		599/Cal/83	156065
		623/Cal/83	155806
		634/Cal/83	156293
		640/Cal/83	155807
		641/Cal/83	156144
		646/Cal/83	155352
		648/Cal/83	156659
		670/Cal/83	156507
		713/Cal/83	155239
		731/Cal/83	156399
		747/Cal/83	156680
		769/Cal/83	156280
		805/Cal/83	156607
		806/Cal/83	156493
		848/Cal/83	156651
		876/Cal/83	156705
		890/Cal/83	156679
		895/Cal/83	155677
		923/Cal/83	156314
		942/Cal/83	156400
		977/Cal/83	156281
		985/Cal/83	156824
		986/Cal/83	156825
		1005/Cal/83	156384
		1012/Cal/83	156791
		1073/Cal/83	156771
		1076/Cal/83	156772
		1143/Cal/83	156563
		1176/Cal/83	156241
		1489/Cal/83	156936
		1497/Cal/83	156564
		1523/Cal/83	155478
		1565/Cal/83	156835
		1585/Cal/83	156085

1983 (Contd.)	1983 (Contd.)	1983 (Contd.)
5/Bom/83	155315	82/Bom/83
6/Bom/83	156615	83/Bom/83
7/Bom/83	156616	87/Bom/83
15/Bom/83	156617	96/Bom/83
21/Bom/83	156618	122/Bom/83
31/Bom/83	155228	124/Bom/83
32/Bom/83	156749	125/Bom/83
33/Bom/83	156750	127/Bom/83
34/Bom/83	156619	128/Bom/83
35/Bom/83	156620	129/Bom/83
36/Bom/83	156621	143/Bom/83
37/Bom/83	156622	161/Bom/83
38/Bom/83	156751	170/Bom/83
40/Bom/83	156752	176/Bom/83
41/Bom/83	156623	178/Bom/83
42/Bom/83	156343	179/Bom/83
44/Bom/83	155766	185/Bom/83
47/Bom/83	156753	186/Bom/83
51/Bom/83	156624	210/Bom/83
56/Bom/83	156232	213/Bom/83
57/Bom/83	156625	223/Bom/83
58/Bom/83	156942	256/Bom/83
59/Bom/83	156943	259/Bom/83
61/Bom/83	155127	293/Bom/83
62/Bom/83	156626	330/Bom/83
67/Bom/83	156627	2/Mas/83
72/Bom/83	155128	4/Mas/83
77/Bom/83	156944	19/Mas/83
80/Bom/83	156754	25/Mas/83
		156628
		156344
		156629
		156755
		156945
		155767
		155768
		156946
		156244
		156233
		156345
		155129
		156630
		156346
		155130
		155131
		156429
		156947
		156229
		156631
		156739
		156948
		156632
		156744
		156037
		156375
		155225
		156386
		156376
		39/Mas/83
		82/Mas/83
		174/Mas/83
		71/Del/83
		72/Del/83
		73/Del/83
		497/Del/83
		644/Del/83
		645/Del/83
		646/Del/83
		647/Del/83
		648/Del/83
		1984
		110/Cal/84
		116/Cal/84
		209/Cal/84
		232/Cal/84
		239/Cal/84
		415/Cal/84
		520/Cal/84
		663/Cal/84
		21/Bom/84
		41/Bom/84
		91/Bom/84
		124/Bom/84
		237/Bom/84
		244/Bom/84
		320/Del/84
		156357
		156336
		156066
		156325
		156326
		156327
		155940
		156269
		156270
		156271
		156272
		156273

CLASS : 32 F₂(C) [IX(1)] + 55 E₂ XIX (1). 163721
Int. Cl. : C 12 P-13/04.

A PROCESS FOR THE PRODUCTION OF A NOVEL ANTIBIOTIC FUMIFUNGIN FROM CULTURE NO. HOECHST INDIA LIMITED Y-83.0405, ITS MUTANTS AND VARIANTS.

Applicants : HOECHST INDIA LTD., HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors : (1) DR. TRIPTIKUMAR MUKHOPADHYAY, (2) DR. KIRITY ROY, (3) DR. BIMAL NARESH GANGULI, (4) DR. RICHARD HELMUT RUPP & (5) DR. HANS WOLFRAM FEHLHABER.

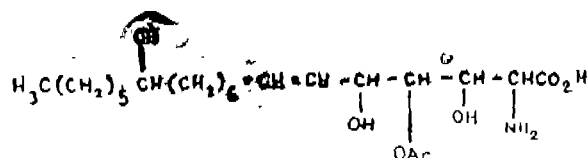
Application No. 152/Bom/1986 filed on May 22, 1986.

Complete after provisional left on 5th August, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

4 Claims

A process for the production of a novel antibiotic fumifungin of the Fig. I.



from fungal culture No. Hoechst India Limited Y-83, 0405 herein described or its mutants or variants, said process comprises cultivating said culture or its mutants or variants in a nutrient medium herein described under

3—317 GI/88

aerobic conditions at temperatures between 24°C to 30°C and pH between 6.0 to 8.0 for 66 to 96 hours and isolating and purifying the antibiotic from the culture broth in a manner such as herein described.

Compl. Specn. 13 pages.

Provl. Specn. 12 pages.

Drg. Nil.

Drg. 1 sheet.

CLASS : 32 F₃(d) [IX(1)] + 55 F XIX (1). 163722

Int. Cl. : C 12 p-19/62.

A PROCESS FOR THE PRODUCTION OF SWALPAMYCIN FROM STREPTOMYCES SPECIES CULTURE NUMBER HIL y-84, 30967 OR ITS MUTANT OR VARIANT.

Applicant : HOECHST INDIA LIMITED, HOECHST HOUSE, NARIMAN POINT, 193, BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors : (1) CHRISTOPHER MILTON MATHEW FRANCO, (2) JULIA GANDHI, (3) SUGATA CHATTERJEE, (4) GOUKANAPALLI CHANDRA SHEKARA REDDY, (5) BIMAL NARESH GANGULI, (6) RICHARD HELMUT RUPP, (7) HERBERT KOLLER AND (8) HANS WOLFARM FELHABER.

Application No. 160/Bom/1986 filed on May 30, 1986.

Complete after provisional left on March 6, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013,

7 Claims

A process for the production of a novel macrolide type antibiotic called swalpamycin of the formula

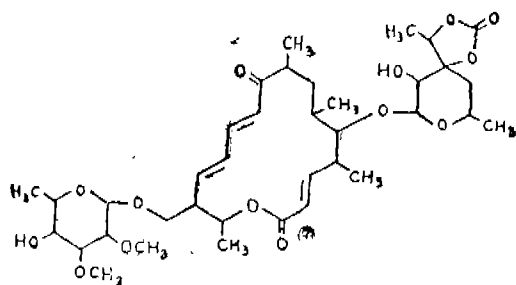


FIG. 1.

from a new strain of microorganism called *Streptomyces* species culture number HIL Y-84, 30967 isolated from soil or its mutant or variant, said process comprises cultivating said microorganism or its mutant or variant by fermentation under aerobic conditions at a temperature between 18°C to 40°C and a pH between 6 to 9 in an aqueous nutrient medium herein described and recovering the swalpamycin from the culture broth in a known manner such as herein described.

Compl. Specn. 30 pages.

Drg. Nil.

Provl. Specn. 29 pages.

Drgs. 7 sheets.

CLASS : 170 B + D [XLIII (4)].

163723

Int. Cl. : C 11 D-3/02, 3/22.

SILICATE-FREE DETERGENT GRANULES AND METHOD OF PREPARING SAME.

Applicant : HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : 1. DAVIES JAMES FRANCIS, 2. LEE ROBERT STANLEY, 3. TRAVILL ANDREW WILLIAM, 4. WILLIAMS ROBERT JOSEPH PATON.

Application No. 138/Bom/86 filed on 5th May, 1986.

U. K. Convention Priority date (8511858) 10th May, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

5 Claims

1. Silicate-free detergent granules comprising at least :

- (i) at least 15% by weight of a water-insoluble particulate carbonate material which is a seed crystal for calcium carbonate, and which is selected from calcite, vaterite, aragonite and mixtures thereof;
- (ii) at least 2% by weight of a non-soap detergent active material which is a dispersant for the water-insoluble particulate carbonate material;
- (iii) at least 5% by weight of sugar as herein defined; said percentages being based on the total weight of ingredients (i), (ii) and (iii); and

optionally (iv) at least 5% by weight of an alkali metal carbonates.

Compl. Specn. 31 pages.

Drg. Nil.

CLASS : 55 E 4 [XIX(1)] + 32 F 1 + 32 F 2b [IX(1)]
163724

Int. Cl. : CO 7 D-215/08, 215/32.

A PROCESS FOR THE PREPARATION OF THERAPEUTICALLY ACTIVE N-ACYL-1, 2, 3, 4-TETRAHYDRO-6-QUINOLINOL ESTERS.

Applicant : SEARLE (INDIA) LIMITED, OF RALLI HOUSE, 21 D, SUKHADWALA MARG, BOMBAY-400 001, MAHARASHTRA, INDIA.

Inventors : KUPPUSWAMY NAGARAJAN, AND SHARADA JAGANNATH SHENOY.

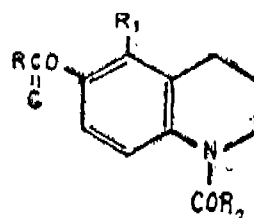
Application No. 64/Bom/86 filed February 19, 1986.

Complete after provisional left on 15th April, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

2 Claims.

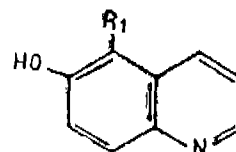
1. A process for the preparation of therapeutically active N-acyl-1, 2, 3, 4-tetrahydro-6-quinolinol esters of the formula I



FORMULA I

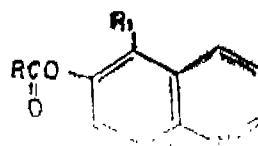
shown in the drawings accompanying the provisional specification wherein R is lower alkyl group such as methyl to hexyl, cycloalkyl group such as cyclohexyl or cyclopentyl, aryl group such as phenyl group optionally substituted by hydrogen or halogen atom, alkyl or alkoxy group, heteroaryl group such as pyridyl, thienyl or furyl, R₁ is hydrogen, lower alkyl group such as methyl to hexyl or halogen atom such as chlorine or bromine and R₂ is haloalkyl group such as chloromethyl, dichloromethyl or trichloromethyl, said process comprising :

(i) acylating 6-quinolinol of the formula II shown



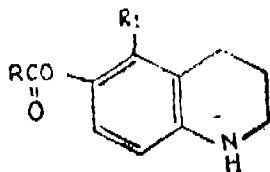
FORMULA II

in the drawings accompanying the provisional specification wherein R₁ is as defined above in an anhydrous non-polar medium such as chloroform or ethylene dichloride at a temperature between 0°C—80°C with an acylchloride of the formula RCOCl, wherein R is as defined above, and an acid acceptor such as tertiary amine such as triethyl amine under stirring, and isolating the resulting compound of the formula III



shown in the drawings accompanying the provisional specification wherein R and R₁ are as defined above from the reaction mixture in known manner such as herein described;

- (ii) reducing the compound of the formula III by hydrogenation thereof in the presence of a noble metal catalyst such as palladium, platinum or nickel, an acid such as acetic acid or hydrochloric acid and an organic solvent such as alcohol such as methanol, or ethanol at 25–50°C and 50–55psi (pounds per square inch) under stirring, and isolating the resulting compound of the formula IV shown in the drawings



6

accompanying the provisional specification, wherein R and R₁ are as defined above from the reaction mixture in known manner such as herein described; and

- (iii) acylating the compound of the formula IV in an anhydrous non-polar medium such as chloroform or ethylenedichloride at a temperature between 0°C–80°C with an acyl chloride of the formula R₂COCl, wherein R₂ is as defined above and acid acceptor such as tertiary amine such as triethyl amine under stirring and isolating the resulting compound of the formula I from the reaction mixture in known manner such as herein described.

Compl. Specn. 9 pages.
Provl. Specn. 7 pages.

Drg. Nil.
Drg. 1 sheet.

CLASS : 155 A [XXIII].

163725

Int. Cl. : D 21 D-3/00, D 21 H-1/40, 3/50.

A PROCESS FOR IMPREGNATING A PLANAR COMPRESSIBLE CARRIER MATERIAL WITH SYNTHETIC RESIN AND A DEVICE FOR CARRYING OUT THE SAID PROCESS.

Applicant : ISOVOLTA OSTERREICHISCHE ISOLIERSTOFFWERKS AKTIENGESELLSCHAFT, A-2351 WIENER NEUDORF, AUSTRIA.

Inventor : GERHARD MELCHER.

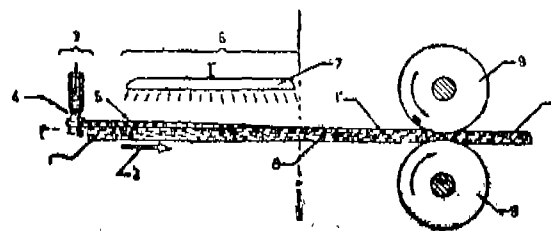
Application No. 370/Bom/85 filed on 31st December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

13 Claims

1. A process for impregnating a planar compressible carrier material (1), which has an air permeability according to Gurley in the range of 1.0 to 50 s, with synthetic resin to produce a stackable planar product wherein to begin with a liquid synthetic resin coating (5) with a synthetic resin content of 70 to 100% and/or with a viscosity at room temperature of 300 to 150,000 mPa.s is applied to one surface of the carrier material (1), whereupon the synthetic resin of the resin coating (5) which before and/or after this applied is raised to a higher temperature, due to this lowered viscosity at least partially penetrates into the carrier material (1), and wherein

the carrier material (1') to which synthetic resin (4) has thusly been applied is thereupon subjected to such mechanical pressure that the synthetic resin possibly still present as a surface coating penetrates into the carrier material and that the synthetic resin evenly permeates the carrier material.



Compl. Specn. 18 pages.

Drg. 1 sheet.

CLASS : 33 H, 108 B₂(b).

163726

Int. Cl. : C 21 C-1/00.

A METHOD FOR THE MANUFACTURE OF COMPACTED OR VERMICULAR GRAPHITE (CG) CAST IRON.

Applicant : TATA ENGINEERING & LOCOMOTIVE COMPANY LIMITED, OF BOMBAY HOUSE, 24, HOMI MODY STREET, BOMBAY-400 023, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor PRAKASH KRISHNARAO BASUTKAR.

Application No. 355/Bom/1985 filed on 23rd December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

14 Claims

A method for the manufacture of compacted or vermicular graphite (CG) cast iron comprising the following steps :

- (i) preparing a cast iron base metal containing 3-4% carbon, 0.05–1.0% manganese, 0.0025–0.15% phosphorus, 1.4–3.6% silicon and 0.01–0.035% sulphur, the rest being iron by heating at a temperature between 1450°C to 1520°C.
- (ii) determining the chemical composition of said melt, particularly its sulphur content in known manner such as herein described;
- (iii) simultaneously desulphurising and vermicularising said melt by introducing selected quantity of said melt in the third section or spout section of a Fischer converter and metallic magnesium in the end section of said converter such that the ratio of sulphur in the selected quantity of said melt and metallic magnesium is between 1.6 and 2.5 and allowing the selected quantity of said melt and metallic magnesium to react and form compacted or vermicular graphite cast iron in the middle section or body of said converter; and
- (iv) tapping the compacted or vermicular graphite cast iron from the middle section or body of said converter into a ladle or the like and stabilising the compacted or vermicular graphite cast iron by inoculating with 0.010 to 0.220% by weight of Mischmetall.

Compl. Specn. 20 pages.

Drg. Nil.

CLASS 32 E + 48 D₁ + 136 E 163727
 Int Cl B 29 C-71/00, CO 8 J-7/04, 7/12, 7/16,
 HO 1 B-3/36, 3/40, 19/04

A PROCESS FOR THE MANUFACTURE OF MOULDED PHENOL FORMALDEHYDE COMPONENTS HAVING IMPROVED COMPARATIVE TRACKING INDEX (CTI) FOR ELECTRICAL APPLICATIONS

Applicant LARSEN & TOUBRO LIMITED OF L & T HOUSE, BALLARD ESTATE BOMBAY-400 038, MAHARASHTRA, INDIA

Inventor 1 VIJAY GANESH PETHE 2 ASHOK YASHWANT DIVKAR

Application No 339/Bom/85 filed on 16th December, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013

4 Claims

1 A process for the manufacture of moulded phenol formaldehyde components such as herein described having improved CTI (comparative tracking index) for electrical applications, said process comprises .

- (i) cleaning the surface of the components in known manner such as herein described, if necessary;
- (ii) preheating the components at a temperature between 90—150°C,
- (iii) coating the preheated components with electric grades epoxy powder to a thickness of 50—85 μ using a spray gun or in a fluidised bed,
- (iv) curing the coated components at a temperature between 150°—160°C, and
- (v) cooling the cured components to ambient temperature by leaving them in the atmosphere

Compl Specn 9 pages

Drg Nil

CLASS 189 163728
 Int Cl A 61 K-7/16

PROCESS FOR MAKING TOOTHPASTE

Applicants HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY 400 020, MAHARASHTRA, INDIA, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913

Inventors (1) RONALD HOYLES & (2) ANDREW ERIC WILDE

Application No 313/Bom/1986 filed on 12th November, 1986

UK Convention priority date (8528117) on November 14, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013

13 Claims

A process for making a toothpaste comprising an aqueous liquid humectant phase consisting essentially of an aqueous

sorbitol solution thickened by a hydrated binder comprising a hydrated plant gum, and a water-insoluble particulate abrasive agent dispersed in the thickened liquid phase, wherein the process is characterised in that hydration of the plant gum is carried out by mixing under shear the plant gum with a liquid hydration medium consisting of water and 0 to 33% by weight of the liquid hydration medium of sorbitol, the mixing being carried out in the presence of such an amount of the particulate abrasive agent that sufficient shear is produced during the mixing of effect uniform hydration of the plant gum with the production of a smooth cream whereafter there is blended with the hydrated plant gum any remaining water and humectant, any remaining abrasive and other conventional ingredients, to produce the toothpaste

Compl Specn 20 pages

Drg 1 sheet.

CLASS 86 B 163729

Int Cl A 47 C-1/02, 1/024

AN IMPROVED REVOLVING CUM-TILT BACK CHAIR

Applicant & Inventor PRAMOD PANDURANG BHAT, JEEVANCHHAYA, 1228/A FERGUSON COLLEGE ROAD, PUNE-411004, MAHARASHTRA, INDIA

Application No 360/Bom/1986 filed on 30th December, 1986

Complete after provisional left on 30th December, 1987.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013

12 Claims

An improved revolving cum-tilt back chair comprising a fixed chair seat consisting of a seat plate with or without cushion and arm rests said seat plate having at its top a flat bar forming a seat bracket and having a revolving shaft integral with bottom centre and a hinge bracket at its rear end, said shaft provided with vertically extending slot on its one side for adjusting seat height from ground level within a collar having a wheel screw on its one side provided on top of a pedestal for engaging the said slot and a back rest hingeably mounted near its lower middle on said hinge bracket by a hinge pin in known manner and the bottom end of said back rest frame being in contact with rear end of a spring loaded adjustably mounted piston rod working within a pair of guide bushes provided on top of said seat bracket, said back rest frame being provided with or without a contoured plated or panel matching with the contour of spinal column/cord profile of a person seated on said chair, the arrangement being such that when a person presses his back against hingeably mounted back rest whereby it swings rearwardly on said hinge pin from 90° to 45° angle with respect to the plane of said fixed chair seat and said piston rod increases said spring tension while said chair seat remains fixed on said revolvable shaft on said pedestal and as soon as back pressure is released from said back rest which in turn attains its upright position and in the process the spinal column/cord of the person gets stretched thereby relieving the fatigue condition of said spinal column/cord of the person

Compl Specn 14 pages

Drg Nil

Provl Specn 9 pages

Drgs 4 sheets

163730

A PROCESS FOR THE PREPARATION OF A NOVEL
ANTIBIOTIC ARANOROSIN FROM A FUNGAL CUL-
TURE NUMBER Y-30, 499.

Inventors : 1. DR. KIRITY ROY, 2. DR. TRIPTI KUMAR MUKHOPADHYAY, 3. DR. GOUKANAPALLI CHANDRA SHEKHAR REDDY, 4. DR. ERRA KOTESWARA SATYA VIJAYAKUMAR, 5. DR. BIMAL NARESH GANGULI, 6. DR. RICHARD HELMUT RUPP, 7. DR. HANSWOLFARM FEHLHABER, 8. DR. HERBERT KOGLER.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

1. A process for the production of a novel antibiotic Ananorodin of the formula shown in Fig. 1 of the accompanying drawings from a fungal culture No. Y-30, 499

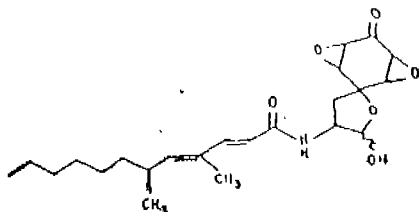


FIG 4.

Fig. 1 sheet.

163731

COGENERATION ARRANGEMENTS.

Inventors : 1. RICHARD EDWARD PUTMAN, 2. KATHERINE ANNE GUNDERSEN, 3. JAMES CHARLES CHRISTENSEN.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

In a cogeneration arrangement including at least one steam turbine supplied with steam at a higher throttle pressure, for generating steam at a lower extraction pressure and for exhausting steam at exhaust pressure while generating electrical power at an operating speed thereof, in accordance with a plant steam demand and a plant

Drgs. 18 sheets.

163732

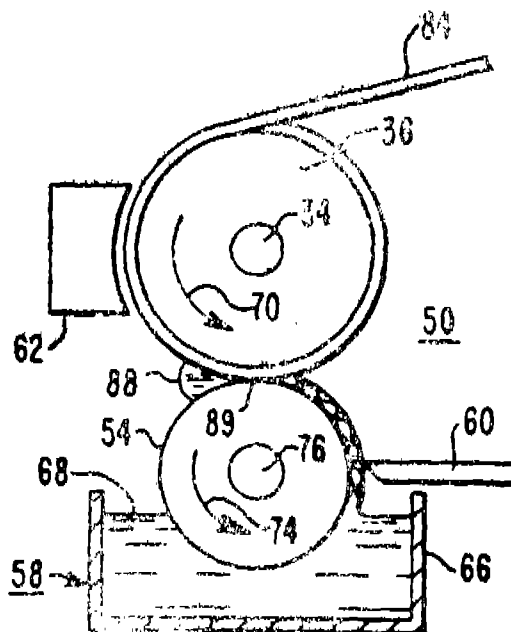
A METHOD OF CONSTRUCTING AN ELECTRICAL WINDING INSULATED WITH SOLID RESINOUS INSULATION.

Inventors : 1. DEAN CONKLIN WESTERVELT, 2.
THOMAS MERLE BURKE.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method of constructing an electrical winding insulated with solid resinous insulation, comprising the steps of : forming conductor turns (90) on a first substrate (98), said forming step characterized by the step of wet winding a conductor (80) upon said substrate, said wet winding step substantially immersing each conductor turn in liquid resinous insulation (68), forming a liquid resinous interface between each conductor turn and said first substrate to provide a void-free liquid intermediate insulative structure (92), and building solid insulation, layer upon layer (102, 110), on the conductor turns and first substrate from the liquid resinous insulation, during the step of forming conductor turns, said building step including the step of controlling the thickness of said layers of solid insulation to eliminate shrinkage voids and preserve the void-free aspect of the liquid intermediate insulative structure, with said solid insulation, as it is formed, providing a second substrate upon which subsequent conductor turns may be formed.



Drgs. 3 sheets.

CLASS : 129-G.

163733

Int. Cl. : F 16 h 21/00.

A MACHINE TOOL TRANSFER DRIVE AND A MACHINE TOOL INCLUDING SAME.

Applicant : THE CROSS COMPANY, OF FRASER, MICHIGAN, U. S. A.

Inventor : 1. HORST LUDWIG ROMAN.

Application No. 63/Cal/85 filed on 31st January, 1985.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A machine tool transfer drive (10) for moving two separate members (74, 72) simultaneously but different distances relative to a frame (24), said transfer drive (10) comprising :

single screw (22) rotatably supported by said frame;
power means (12) connected to rotate said screw;

a first nut (32) in threaded engagement with said screw (22);

a first movable member (34) coupled to said first nut (32) for movement with said first nut (32) along said screw (22);

a second nut (40) in threaded engagement with said screw (22);

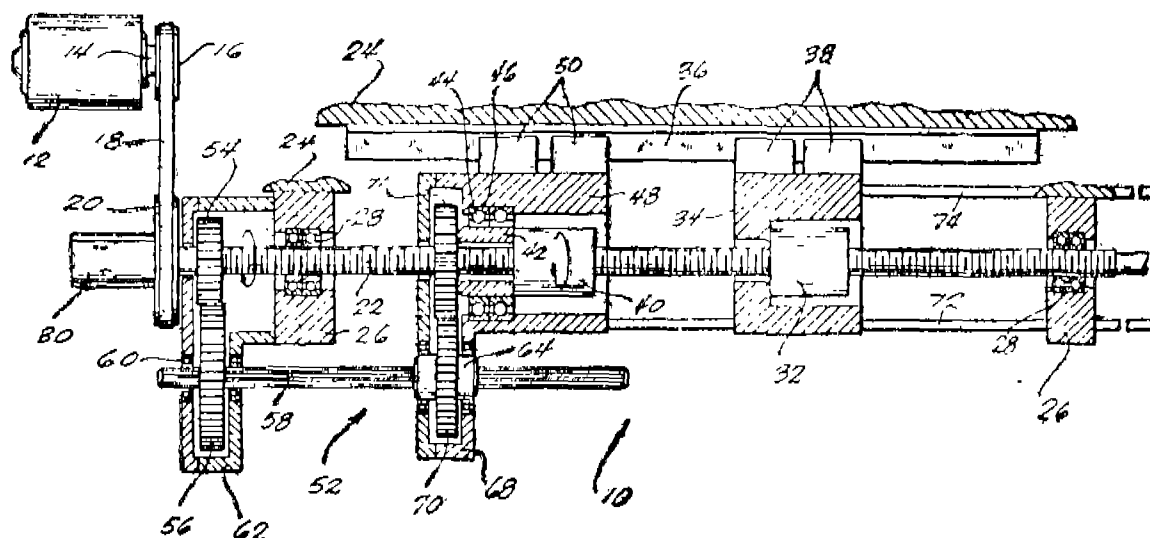
means (42, 44) for mounting said second nut for rotation relative to said screw;

a second movable member (48) coupled to said second nut (40) for movement with said second nut (40) along said screw (22); and

drive means (52) connected to rotate said second nut (40) while said screw (22) is being rotated so that said second nut (40) and said second movable member (48) will move at a different rate of travel and a different distance along said screw (22) than said first nut (32) and said first movable member (34).

Compl. Specn. 26 pages.

Drgs. 3 sheets.

CLASS : 2-B₃; 168-F.

163734

Int. Cl. : B 42 d 15/02.

ENGRAVED IDENTIFICATION CARD AND METHOD OF MAKING THE SAME.

Applicant : COMPUTER IDENTIFICATION SYSTEMS INC., OF 3840 ROSIN COURT, SACRAMENTO, CALIFORNIA 95834, U. S. A.

Inventor : 1. BARRY C. PHELPS.

Application No. 227/Cal/85 filed on 27th March, 1985.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

A method for making an engraved identification card comprising :

sputter depositing a first metallic layer onto a planar surface of an electrically non-conductive substrate; and

forming an image by engraving parallel grooves through said metallic layer into said substrate with a taper-

ing styles and varying the depth of the groove to thereby vary the width of the metal covered surface between adjacent grooves.

Compl. Specn. 21 pages.

Drg. 1 sheet.

CLASS : 140-A₂.

163735

Int. Cl. : C 10 m 3/32.

A METHOD FOR PREPARING IMPROVED SULFUR-BASED ADDITIVES FOR LUBRICANTS AND FUNCTIONAL FLUIDS CONTAINING LABITE SULFUR.

Applicant : THE LUBRIZOL CORPORATION 29400 LAKELAND BLVD. WICKLIFFE OHIO 44092, U.S.A.

Inventors : 1. THOMAS FRIER STECKED, 2. THOMAS ROBERT HOPKINS.

Application No. 272/Cal/85 filed on 10th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims

A method for preparing improved sulfur-based additives for lubricating and functional fluids, which method comprises contacting a sulfur-based additive containing labile-sulfur :

- (1) with copper in its elemental state, or
- (2) with a copper compound, or
- (3) with a copper and another material reactive with said labile-sulfur such as herein described;

wherein the copper or copper compound is present in an amount of 0.01 to 5% by weight based on the additive and at a temperature of from 100–250°C to thereby substantially eliminate the detrimental metal corrosivity and the detrimental degradation of elastomer materials exhibited by said labile-sulfur containing additive.

Compl. specn. 38 pages.

Drg. Nil

CLASS : 33-D & F

163736

Int. Cl. : B22 c 15/00, 17/00, 19/00.

METHOD OF AND APPARATUS FOR MANUFACTURING FOUNDRY MOLDS.

Applicant & Inventor : LIETMAR BOENISCH, OF EMMI-WELTER-STRASSE 8, D-5100 AACHEN, FEDERAL REPUBLIC OF GERMANY.

Application No. 244/Cal/86 filed March 25, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

57 Claims

A method of manufacturing a foundry mold, especially for compacting foundry molding material, comprising the steps of ;

infedding a preselected foundry molding material into mold frame means containing a molding frame which defines an interior space and which is provided with pattern means supporting at least one mold pattern, and further containing a filling frame defining an interior space, in order to thereby fill a remaining portion of the interior space of the molding frame which is not filled by the at least one mold pattern and a predetermined portion of the interior space of said filling frame with such preselected foundry molding material;

compacting said foundry molding material infed into said mold frame means in order to thereby displace a predetermined portion of said foundry molding material present in said filling frame from said filling frame into said molding frame in order to thereby form the foundry mold;

during said step of compacting said foundry molding material, infedding into and expanding a preselected gas in predetermined local regions of said foundry molding material during the time such foundry molding material is being compacted in order to thereby produce said predetermined local regions which possess a reduced packing density of said foundry molding material; and

after the step of infedding and expanding said preselected gas and during the course of said compacting operation, essentially eliminating said predetermined local regions of reduced packing density and which predetermined local regions are formed as a result of infedding and expanding said preselected gas; and

during said step of eliminating said predetermined local regions of reduced packing density, increasing the packing density of said predetermined local regions essentially to a packing density prevailing in remaining regions of said foundry molding material.

Compl. specn. 80 pages.

Drg. 6 sheets

Int. Cl. : F 15 b 5/00

163737

POWER SERVO CONTROL SYSTEMS.

Applicant : VICKERS, INCORPORATED, 1401, CROOKS ROAD, TROY, MICHIGAN 48084, U.S.A.

Inventors : 1. YEHLA MOHAMED EL IBIARY, 2. RICHARD SCOTT LEEMHULS.

Application No. 426/Cal/86 filed June 6, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A power servo control system which includes actuator means (12) adapted to variably actuate a load, said actuator means (12) having a predetermined first polynomial transfer function having a plurality of first constants (α , B_1 , B_2) in the sampled-data domain related to dynamic behavior characteristics at said actuator means, and sampled-data servo control means (22) including means (24) for receiving common signal (R), sensor means (14) responsive to said actuator means for providing a sensor signal (Y) as a function of actuation at said actuator means, and means (34) for providing an error signal to control said actuator means as a combined function of said command signal (R) and said sensor signal (Y) to obtain a preselected response characteristic at said actuator means, characterized in that said means for providing said error signal comprises :

means (26) for periodically sampling said sensor signal to provide a sampled sensor signal [Y(Z)];

feedback compensation means (28) receiving said sampled sensor signal [Y(Z)] and having a preselected second transfer function coordinated with said first transfer function to obtain said preselected response characteristics, said second transfer function, in the sampled-data domain being a polynomial having a number of second constants (G_1 , G_2 , G_3) which vary as functions of said first constant (α , B_1 , B_2).

first means (36, 40 or 44) for estimating said first constants;

said means (38) responsive to said first means (36, 40 or 44) and coupled to said feedback compensation means (28) for calculating said second constants (G_1 , G_2 , G_3) as a function of estimated first constants; and

means (24, 30) responsive to said feedback compensation means (28) and to said command signal (R) to provide said error signal [E(Z)].

Compl. specn. 20 pages.

Drg. 4 sheets

CLASS :

163738

Int. Cl. : C 09 c 1/36.

PEARL LUSTRE PIGMENTS STABLE TO GLAZE AND ENAMEL.

Applicant : MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, 6100 DARMSTADT 1, FRANKFURTER STR. 250, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. AXEL RAU, 2. DR. KLAUS AMBROSIOUS, 3. DR. KLAUS-DIETER FRANZ.

Application No. 604/Cal/86 filed August 7, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Process for the preparation of pearl lustre pigments which are based on mica flakes coated with metal oxides, in particular titanium dioxide, and which have an improved stability in glazes and enamels, wherein at least once a solution of a tin and/or cerium salt is added to an aqueous suspension of an annealed or non-annealed mica aqueous suspension of an annealed or non-annealed mica flake pigment coated with one or more metal oxides, the pH value of the suspension being kept largely constant, by simultaneous addition of a base, within a range which effects hydrolysis of the salt added, and the pigment coated in this manner with tin dioxide and/or cerium dioxide is separated off, washed, if appropriate, and dried, and is then calcined.

Compl. specn. 8 pages

Drg. Nil

CLASS :

163739

Int. Cl. : C 23 f 11/02.

NITROGEN SHROUDING ARRANGEMENT ATTACHED WITH T-STOP SLIDE GATE VALVE SYSTEM.

Applicant & Inventor : SIBABRATA KAR, RESEARCH & DEVELOPMENT DIVISION, THE TATA IRON AND STEEL COMPANY LIMITED, JAMESHEDPUR, BIHAR, INDIA.

Application No. 745/Cal/86 filed October 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A device for shrouding a molten or liquid metal stream flowing out of a ladle through a slide gate valve, comprising a casing upper portion which is of oval shape which can be fixed to the slide gate valve, and a lower cylindrical portion and a plurality of nozzles for passing nitrogen around the molten metal stream.

Compl. specn. 6 pages.

Drg. 2 sheets

CLASS : 32-F₁ + 32-F₂ b + 55-E_a, 4

163740

A PROCESS FOR PRODUCING A NOVEL INTERMEDIATE FOR CEPHALOSPORINS.

Applicant : TOYAMA CHEMICAL CO. LTD., OF 2-5, 3-CHOME, NISHISHIN-JUKU, SHINJUKU-KU, TOKYO, JAPAN.

Inventors : 1. HIROYUKU IMAIZUMI, 2. TAKIHIRO INABA, 3. SFISHI MORITA, 4. TYUKO TAKENO, 5. YOSHIHARU MUROTANI, 6. HIROHIKO FUKUDA, 7. JUNICHI YOSHIDA, 8. KLYOSHI TANAKA, 9. SHUNTARO TAKANO, 10. ISAMU SAIKAWA.

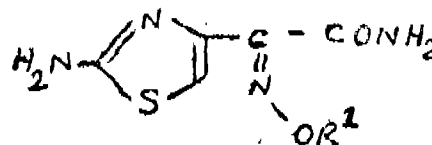
Application No. 515/Cal/87 filed July 3, 1987.

Division of application No. 701/Cal/84 dated 29th September, 1984.

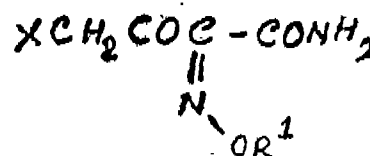
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A process for producing a novel intermediate for cephalosporin represented by the formula (II) of the accompanying drawings,



wherein R¹ is a lower alkyl group, which comprises reacting a compound represented by the formula (IV) of the accompanying drawings,



wherein X is a halogen atom; and R¹ has the same meaning as defined above, with thourea in the presence of a solvent.

Compl. specn. 20 pages.

Drg. 3 sheets

CLASS : 13-A; 155-F₂

163741

Int. Cl. : B 65 d 65/40.

POLYMERIC STRUCTURE HAVING IMPROVED BARRIER PROPERTIES AND METHOD OF MAKING SAME.

Applicant: AMERICAN NATIONAL CAN COMPANY, OF 8770 WEST BRYN MAWR AVENUE, CHICAGO, ILLINOIS 60631, U.S.A.

Inventors : 1. CHRISTOPHER J. FARRELL, 2. BOH TSAI, 3. JAMES A. WACHTEL.

Application No. 699/Cal/84 filed September 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

Improvement in or modification of the method of increasing the oxygen resistance of barrier film of a multilayer polymeric laminate material as claimed in Parent Indian Patent Specification No. 155103 dated 8th April, 1981 comprising heating the barrier film at a temperature of from 210° to 250°F in the presence of moisture for example a humid environment.

Compl. specn. 15 pages.

Drg. Nil

CLASS : 80-C

163742

Int. Cl. : B 01 d 25/12.

FILTER PRESS.

Applicant & Inventors : (1) GEORGY MIKHAILOVICH KOCHKIN, OF KHARKOV, ULITS 23, AUGUSTA, 29, KV 161, USSR; (2) ALEXANDR FEDOROVICH PICHAKHCHL, OF KHARKOV, PLOSHAD, NARIMANOVA, 6, KV. 132, USSR; (3) SERGEI PETROVICH SALOMATIN, OF KHARKOV, PROSPEKT POBEDY, 70, KV. 352, USSR.

Application No. 28/Cal/85 filed January 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A filter press comprising :

- a set of filter plates disposed between thrust and pressure plates;
- brackets connecting the thrust plate with a means for clamping the filter plates;
- said filter plates being adapted to be displaced when desired;
- a means for removing filter cake having toothed racks capable of moving vertically with the teeth thereof pointing upwards;

said teeth of the toothed rake being capable of engaging the side projections in the filter plates engageable with the teeth of the toothed racks, characterised in that the length of the toothed racks at least equals the length of travel of one filter plate;

the filter press being provided with additional racks arranged under the toothed racks and pivotably connected thereto by bars;

the toothed racks also having pivotable spring-loaded stop elements;

the additional racks being capable of horizontal displacement and arranged on longitudinal guides provided with limit stops cooperating with the ends of the additional racks.

Compl. specn. 9 pages

Dr. 4 sheets

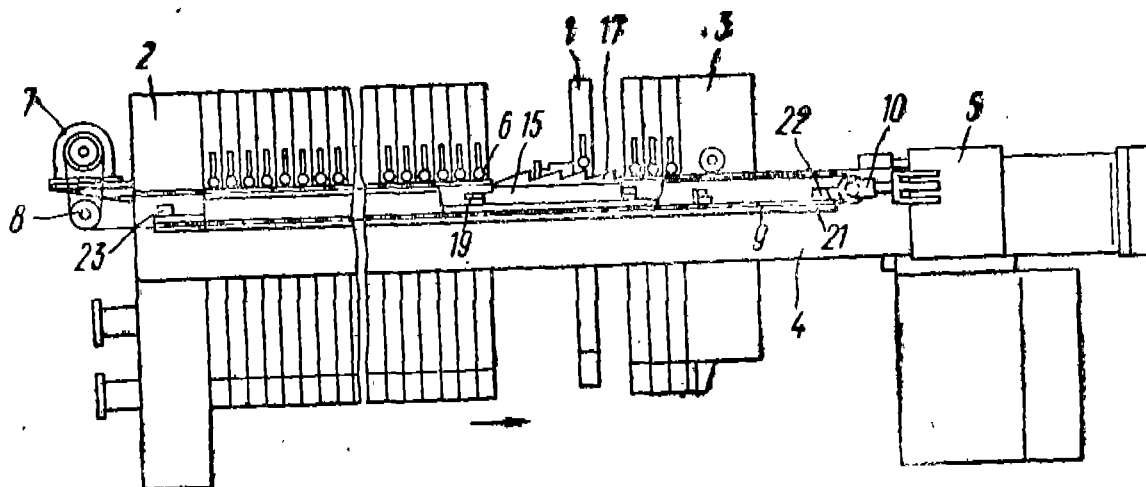


FIG. 1

CLASS : 123

163743

Int. Cl. : C 05 c 1/00, 13/00.

IMPROVED NITROGENOUS FERTILIZER COMPOSITIONS IN PRILL FORM AND METHOD FOR THE MANUFACTURE THEREOF.

Applicant : IEL LIMITED, FORMERLY KNOWN AS INDIAN EXPLOSIVES LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventors : 1. DHIRENDRA NATH BHATTACHARYA, 2. SUBRAMANIA IYER KRISHNAN.

Application No. 344/Cal/85 filed May 3, 1985.

Compl. specn. left on 31st July, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

An improved nitrogenous fertilizer composition in prill form which comprises a nitrogen-containing fertilizer compound of the kind described herein in combination with from 3% to 10% by weight of one or more substantially water-insoluble hydrophobic materials of the kind described herein and from 5% to 30% by weight of a nitrification inhibiting agent of the kind described herein.

Compl. specn. 34 pages.

Dr. Nil

4-317GI/88

CLASS : 206-E

163744

Int. Cl. : G 05 b 15/00.

ARRANGEMENT FOR CONTROLLING A PLURALITY OF SUB PROCESSES IN A DISTRIBUTED CONTROL SYSTEM.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, U. S. A.

Inventor : 1. JACK ASHER SCHUSS.

Application No. 402/Cal/85 filed May 27, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

1. In a distributed control system of the type having a plurality of process control computer corresponding in number to the number of subprocesses controlled by the distributed control system, an arrangement for controlling a plurality of subprocesses upon the failure of a process control computer controlling one of the subprocesses, the arrangement comprising :

- (a) means provided with each process control computer in the distributed control system for receiving input signals of operational parameters of an associated first subprocess of the distributed control system;

- (b) means provided with each process control computer in the distributed control system for executing a preprogrammed set of instructions based upon the input signals;
- (c) means provided with each process control computer for generating in response to the input signals and in accordance with the preprogrammed instructions, control signals to control the first subprocess;
- (d) means provided with each process control computer in the distributed control system for receiving input signals commensurate with the operational safety of the associated first subprocess;
- (e) means provided with each process control computer in the distributed control system for executing a preprogrammed set of instructions based upon the operational safety of the associated first subprocess input signals;
- (f) means provided with each process control computer for generating in response to the input signals commensurate with the operational safety of the associated first subprocess and in accordance with the preprogrammed instructions, control signals for shutting down the associated first subprocess when an unsafe operating condition is approached;
- (g) means provided with each process control computer in the distributed control system for receiving input signals of operational parameters commensurate with the operational safety of a second subprocess of the distributed control system;
- (h) means provided with each process control computer in the distributed control system for executing a preprogrammed set of instructions based upon the operational system of the second subprocess input signals;
- (i) means provided with each process control computer in the distributed control system for generating in response to the input signals commensurate with the operational safety of the second subprocess and in accordance with the preprogrammed instructions, control signals for shutting down the second subprocess when an unsafe operating condition is approached;
- (j) means provided with each process control computer in the distributed control system for executing a spare preprogrammed set of instructions to control a third subprocess;
- (k) means provided with each process control computer in the distributed control system for executing a spare preprogrammed set of instructions for shutting down the third subprocess when an unsafe operating condition is approached;
- (l) means provided with each process control computer in the distributed control system for executing a spare preprogrammed set of instructions for shutting down a fourth subprocess when an unsafe operation condition is approached;
- (m) means provided with each process control computer in the distributed control system for receiving input signals for the spare preprogrammed instructions of sets (j)–(l) from input ports with no inputs attached thereto;
- (n) means provided for each process control computer in the distributed control system for generating in response to the input signals for the spare preprogrammed instructions and in accordance with the spare preprogrammed instructions control signals for controlling the third subprocess;
- (o) means provided with each process control computer in the distributed control system for generating in response to the input signals for the spare preprogrammed instructions and in accordance with the spare preprogrammed instructions control signals for shutting down the third subprocess when an unsafe operating condition is approached;

- (p) means provided with each process control computer in the distributed control system for generating in response to the input signals for the spare preprogrammed instructions control signals for shutting down the fourth subprocess when an unsafe operating condition is approached;
- (q) means for detecting the removal from service of one of the process control computers of the distributed control system controlling a subprocess;
- (r) means for switching the input and output connections from the process control computer of the distributed control system that has been removed from service to another process control computer of the distributed control system that has not been removed from service, upon detecting the removal from service of one of the process control computers; and
- (s) means for controlling the subprocess formerly controlled by the process control computer removed from service with the process control computer to which the input and output connections are switched.

Compl. specn. 34 pages.

Drg. 4 sheets

CLASS : 133 A.

163745

Int. Cl. : G 08 c 19/20.

POSITION TRANSMITTER FOR A PNEUMATIC-PNEUMATIC OR ELECTRO-PNEUMATIC CONVERTER.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventors : 1. JANE ELLEN SMITH. 2. RAYMOND JACK SAMPSON.

Application No. 413/Cal/85 filed May 31, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A control system comprising :

an electro-pneumatic converter (71) having pneumatic means for providing a variable pneumatic signal;

a power supply (10);

a system controller (14) connected to the power supply (10) and connected to the electro-pneumatic converter (71) for controlling the converter; and

a position transmitter (8) connected to a movable member (24) for generating a signal corresponding to the position of the movable member (24), the system being characterised in that :

the system comprises an actuator device (22), said movable member (24) being movable member of the actuator device;

an input line (12) of the position transmitter (8) is connected to one terminal of the power supply (10);

an output line (16) of the position transmitter is connected to another terminal of the power supply (10) via the system controller (14), which has resistive load (R LOAD);

the electro-pneumatic converter (71) is connected to receive power from the system controller (14) and is connected to apply said variable pneumatic signal to the actuator device (22) for controlling the actuator device; and

the position transmitter (8) comprises :

voltage divider means (30, 44, 46) connected between the input and output lines (12, 16) and having a movable contact (28) mechanically engaged or engageable with the movable member (24) of the actuator device (22) for carrying a voltage which varies with motion of the movable member (24).

a zero adjust amplifier (50) having an input connected to the movable contact (28) for receiving the voltage carried by the movable contact, the zero adjust amplifier (50) having an output and being connected to influence a current on the output line (16), and the zero adjust amplifier (50) also having an adjustable input, the movable contact (28) being movable to a zero position corresponding to a zero position of the movable member (24) and the adjustable input being adjusted or adjustable to apply a low selected current signal to the output line (16) which is indicative of a zero position of the movable member (24),

a span adjust amplifier (54) having an input connected to an output of the zero adjust amplifier (50), the span adjust amplifier (54) having an output and being connected to influence a current on the output line (16), the span adjust amplifier (54) also having an adjustable input, the movable contact (28) being movable to a maximum position corresponding to a maximum position of the movable member (24) and the adjustable input of the span adjust amplifier (54) being adjusted or adjustable to apply a high selected current signal to the output line (16) which is indicative of the maximum position of the movable member (24), and

a voltage-to-current stage (58, 60) connected between the input and output lines (12, 16) and connected to the output of the span adjust amplifier (54) for converting a voltage signal from the span adjust amplifier (54) to a current signal on the output line (16).

Compl. specn. 17 pages.

Drgs. 2 sheets

CLASS : 130-F & G.

163746

Int. Cl. : B 01 d 15/00.

METHOD FOR REDUCING A METAL ADSORBED ON AN CHELATING AGENT.

Applicant : SUMITOMO CHEMICAL COMPANY LIMITED, OF 15, KITAHAMA 5-CHOME, HIGASHI-KU, OSAKA, JAPAN.

Inventors : 1. YUSHIN KATAOKA, 2. MASAOKI MATSUDA, 3. MASAHIRO AOI.

Application No. 554/Cal/85 filed 29th July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

In a method for recovering a metal, which is selected from the group consisting of indium, gallium, palladium, germanium, uranium, gold and platinum, adsorbed on a chelating agent, which has in the molecule at least one of the functional groups selected from the group consisting of $=\text{NOH}$, $-\text{P}(\text{OR})_2$, $-\text{PO}(\text{OR})_2$, $-\text{PH}(\text{OR})_3$, $-\text{N}(\text{R})_2$, $-\text{N}(\text{R})$ + $(\text{R})_2$ (where each of R's which may be the same or different represents a hydrogen, a phenyl group, an alkyl group or an alkenyl group) and their metal salts, with an eluent, the improvement comprising using as the eluent an aqueous solution containing both (1) a water soluble inorganic sulfide, and (2) at least one of the basic compound selected from the group consisting of inorganic alkaline compounds and water soluble organic amines.

Compl. specn. 27 pages.

Dr. Nil

CLASS :

163747

Int. Cl. : H 01 f 37/00.

VALVE CHOKE, FOR USE IN HIGH VOLTAGE DIRECT CURRENT TRANSMISSION SYSTEMS.

Applicant: SIEMENS AKTIENGESellschaft, OF WETTELSPACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : 1. REINHOLD SUNDERMANN, 2. PAUL KUKERT, 3. TIBOR SALANKI.

Application No. 583/Cal/86 filed July 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A valve choke, for use in high voltage direct current transmission systems, the choke comprising a choke coil and a choke core, wherein :

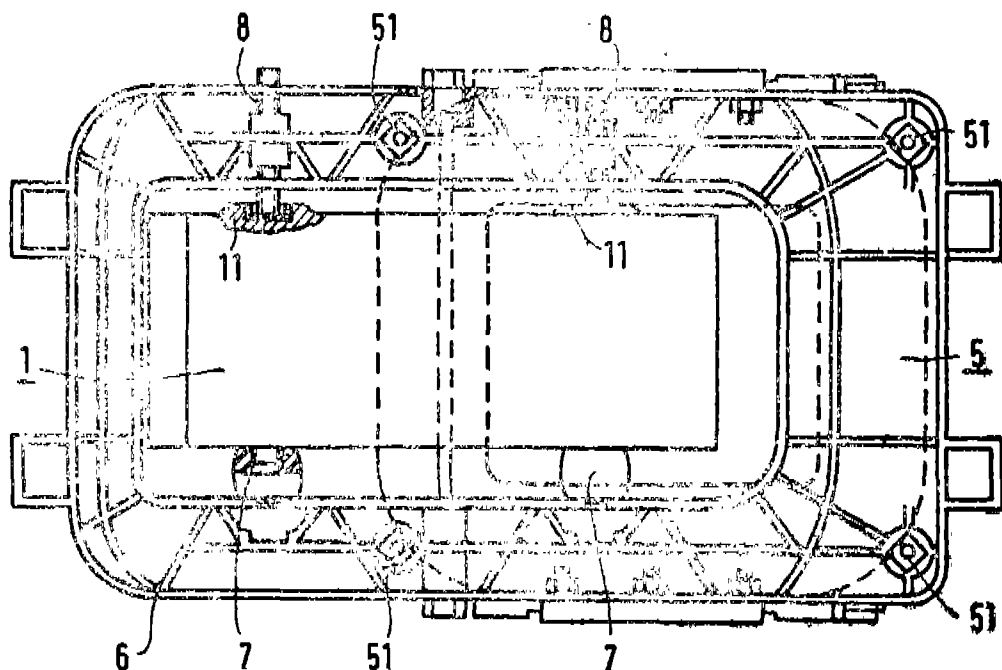
the choke coil is arranged, in a self-contained manner, spaced from a leg of the choke core, in a tension frame;

the choke coil is sealed in a block, and the sealed block is mounted by receiving means in the tension frame; and

the choke core consists of two U-shaped cores and is held in the tension frame by securing means.

Compl. specn. 8 pages.

Drgs. 2 sheets



CLASS :

163748

9 Claims

Int. Cl. : H 01 h 73/04.

A MULTIPOLE LOW-VOLTAGE CIRCUIT-BREAKER.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000 MÜNCHEN 2, WEST GERMANY.

Inventors : 1. GUNTER PRIETZEL, 2. GEORG SPRENGER, 3. REINHARD KUGLER.

Application No. 796/Cal/86 filed October 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A multipole low-voltage circuit-breaker having a first row of conductor bars connected to input contacts of the circuit-breaker and a second row of conductor bars connected to output contacts of the circuit-breaker, the two rows being parallel to one another and at right angles to two opposite side walls of a housing of the circuit-breaker, there being input connecting bars and output connecting bars which serve to connect the conductor bars to external fixed conductors not aligned with the conductor bars, the input connecting bars being held by a common insulating support and the output connecting bars being held by another common insulating support, the ends of these insulating supports being held to the housing of the circuit-breaker.

Compl. specn. 12 pages.

Drgs. 2 sheets

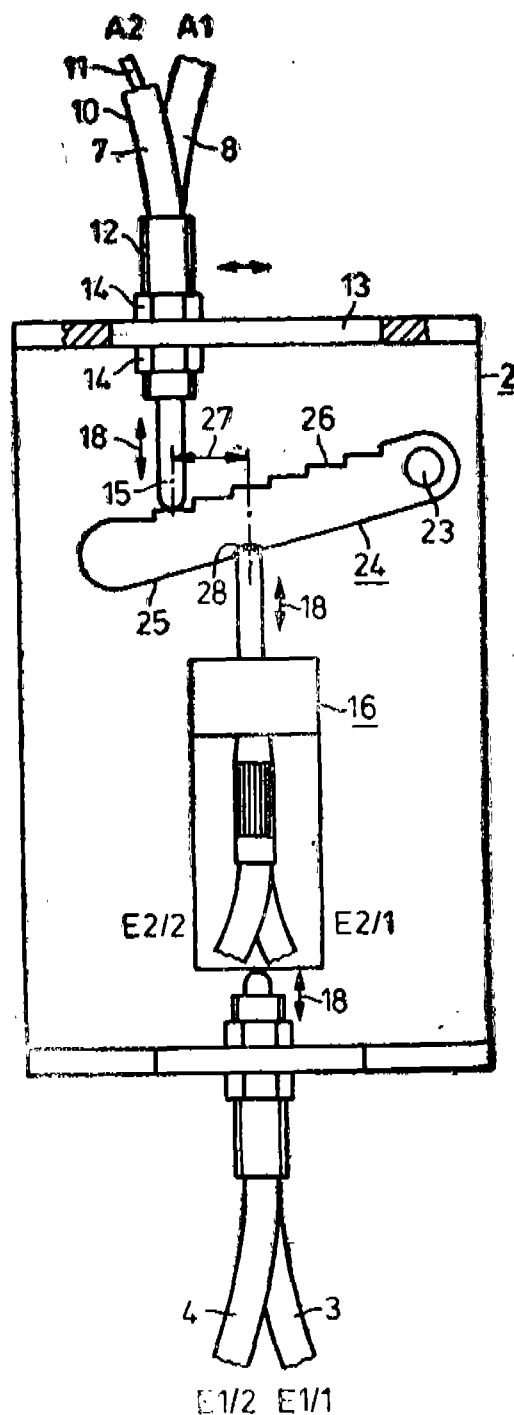


FIG 1

CLASS :

163749

tant, the said container being provided with :

Int. Cl. : F 17 c 1/00.

IMPROVEMENTS IN OR RELATING TO CONTAINERS OR VESSELS FOR STORAGE, TRANSPORTATION AND/OR USE OF FLUIDS.

Applicant & Inventors : TEJENDRA GARG, AT 6/1, BELVEDERS ROAD, CALCUTTA-700027, WEST BENGAL, INDIA AND DR. AMARJYOTI BASU AT 43 ROYD PARK, CALCUTTA-700034, WEST BENGAL, INDIA.

Application No. 861/Cal/86 filed November 28, 1986.

Complete Specn. left on 26th February, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

An improved container or vessel for storage, transportation and/or use of fluid materials from which container the said fluid material may be withdrawn by using an inert ejec-

(i) means for introducing the said fluid material inside the container.

(ii) means for introducing the inert ejectant,

(iii) means for withdrawing the said fluid material from inside the container,

(iv) means for preventing flow of fluid material from inside the container to outside on its own or due to leakage on the downstream side.

(v) means for preventing entry of any extraneous material(s) into the container, and, if desired,

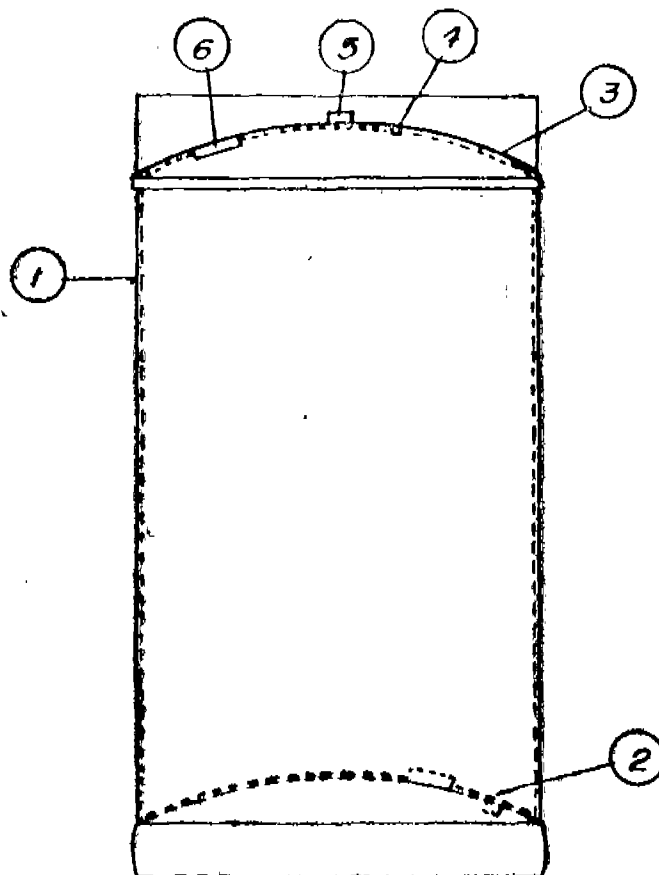
(vi) safety means for preventing any pressure build-up inside the said container above and beyond a pre-determined limit.

Provisional specn. 8 pages.

Drg. 1 sheet

Compl. specn. 11 pages.

Drg. Nil



CLASS : 32-F₁ + 32-F₂b + 55-D₂.

163750

Int. Cl. : C 07 d 31/06, 31/20 31/26; A 01 n 9/00.

A METHOD FOR PREPARING 2-CHLORO-OR BROMO 5-METHYL-PYRIDINE.

Applicant : ICI AMERICAS INC., OF NEW MURPHY ROAD AND CONCORD PIKE, WILMINGTON, STATE OF DELAWARE, U. S. A.

Inventors : 1. LUDWIG ALBERT HARTMANN, 2. JOHN BERGUS STEPHEN.

Application No. 109/Cal/87 filed February 9, 1987.

Division of application No. 1200/Cal/83 dated 29th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A method for preparing a 2-chloro-or 2-bromo-5-methyl-pyridine of formula I of the accompanying drawings



I

wherein X is Cl or Br comprising the steps of oxidizing 5-methyl-3, 4-dehydro-2-(1H) pyridone to produce 2-hydroxy-5-methyl pyridine by

- (i) dihalogenating 5-methyl-3, 4-dihydro 2(1H) pyridone with a halogenating agent to produce a 5-methyl 5, 6-dihalo-3, 4-dihydro-2 (1H) pyridone and
- (ii) dehydrohalogenating said 5-methyl-5, 6-dihalo-3, 4-dihydro-2 (1H) pyridone to produce 2-hydroxy-5-methyl pyridine and thereafter halogenating this product as hereinbefore described.

Compl. specn. 32 pages.

Drg. 1 sheet

Int. Cl. : C 01 B 33/26.

163751

PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant : MOBIL OIL CORPORATION CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 150 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

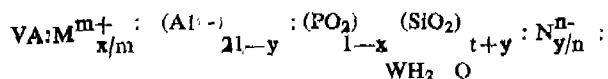
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS
(3) ERNEST WILLIAM VALYOCISK

Application No. 88/Mas/84 filed December 14, 1984.

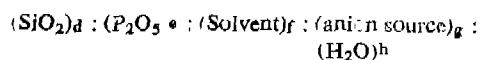
Appropriate Office for Opposition Proceedings (Rule 1, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for producing a synthetic crystalline silicophosphaluminate material designated MCM-10 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table 1+A of the specification and has the composition :

wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent or water immiscible organic solvent, V is the number of moles of A, w is the number of moles of H₂O and x and y are numbers of form greater than -1/2 to less than +1 which satisfy the relationships :

- (1) if x is 0, then y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of Al/P is greater than 1, then x+y is greater than 0.001 and y+0.6x is less than 0.4 and
- (4) if the atomic ratio of Al/P is less than 1, then x+y is greater than 0.001 and y+0.5x is less than 0.5

(i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, and organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being (A)_a : (M₂O)_b : (Al₂O₃)_c :

wherein A and M are as defined above a, b, c, d, e, f, g, and h are numbers satisfying the relationships a/(c+d+e) is less than 1, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150;

(ii) heating the said mixture at a rate of 5°C to 20°C per hour to a temperature from 30°C to 300°C;

(iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other; 2222

(iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silicophosphaluminate material are formed;

(v) recovering from said reaction mixture said crystals in a conventional manner.

The compound prepared according to this invention is useful as a catalyst in catalytic conversion of organic compounds and exhibit ion-exchange properties.

(Com. 22 pages; Drwgs. 1 sheet.)

Int. Cl. : C 01 B 3/40

163752

METHOD FOR REFORMING HYDROCARBONS.

Applicant : KABUSHIKI KAISHA KOBE SEIKO SHO ALSO KNOWN AS KOBE STEEL LTD., A JAPANESE CORPORATION, OF 3-18, WAKINHOMA-CHO 1-CHOME, CHUO-KU, KOBE 651 JAPAN.

Inventor(s) : KEI UTSUNOMIYA KATSUNORI SHIMASAKI MAMORU AOKI.

Application No. 6/Mas/85 filed on January 1, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras.

2 Claims

A method for reforming hydrocarbons into hydrogen, carbon monoxide or a mixture thereof with a reforming agent consisting of at least one member selected from the group of steam, carbon dioxide and oxygen characterised in that supplying a raw material gas comprising the hydrocarbons, the reforming agent and a sulfur compound as herein described to a reformer furnace, temperature at the outlet of which is adjusted at a level above 850°C, wherein the concentration of said sulfur compound in the gaseous mixture is 3—20 ppm.

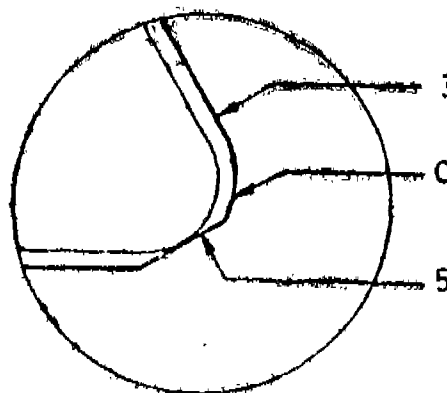
These gases are very useful as a starting material for the synthesis of ammonia, methal and the like. These gases are used as a reducing gas in the direct reduction process.

Compl. specn. 18 pages.

Drg. Nil

2 Claims

An improved milling insert comprising a major cutting edge, a cutting corner and a wiper edge characterised in that the cutting corner has a smooth curvilinear profile of a mean radius substantially in the range 1 mm to 8 mm.



Compl. specn. 5 pages.

Drg. 1 sheet

CLASS :

163753

Int. Cl.4 : A 23 C 11/00.

A PROCESS FOR PREPARING A POWDER-FORM COMPOSITION FOR A COFFEE BEVERAGE.

Applicant : SOCIETE DES PRODUITS NESTLE S. A., OF P. O. BOX 353, 1800 VENNEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventor : THEO WALTER KUYPERS.

Application No. 93/Mas/85 filed 4 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

2 Claims

A process for preparing a powder-form composition for a coffee beverage which comprises forming a suspension of 0.2 to 28% by weight of fats, 5 to 16% by weight of proteins 16 to 62% by weight of lactose and up to 60% by weight of other carbohydrates, wherein the ratio of weight of proteins to lactose is from 1:3.5 to 1:5 and heating said suspension, concentrated by evaporation to have a solids content of from 46 to 60%, dried by spraying and then post-dried, adding soluble coffee or soluble coffee substitute and further dried, wherein an inert gas is introduced under low pressure into the concentrate, the gas and the concentrate are mixed, the gasified concentrate is highly compressed and then injected through a nozzle into a spray-drying tower where it is dried by spraying into a stream of hot air consisting of a plurality of turbulent component streams.

Compl. specn. 12 pages.

Drg. Nil

CLASS :

163754

Int. Cl.4 : B 23 C 5/14.

AN IMPROVED MILLING INSERT.

Applicant : WIDIA (INDIA) LIMITED, 8/9TH MILE, TUMKUR ROAD, BANGALORE 560 073, KARNATAKA, INDIA.

Inventor : AMITAVA SHYAM CHOUDHURY, RANGARAJAN SRINIVASAN.

Application No. 73/Mas/1986 filed 3 February 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

Int. Cl.4 : C 07 D 211/05.

163755

PROCESS FOR PRODUCING N-[3-[3-(1-PIPERIDIN-1-YLMETHYL)-PHENOXY] PROPYL] ACETOXYACETAMIDE HYDROCHLORIDE.

Applicant : TEIKOKU HORMONE MFG. CO., LTD., A JAPANESE BODY CORPORATE OF 5-1 2-CHOME, AKASAKA, MINATO-KU, TOKYO, JAPAN.

Inventors : (1) KENYU SHIBATA
(2) TOSHIHISA ITAYA
(3) NOBUAKI YAMAKOSHI
(4) SHIGERU KURATA
(5) NAOYUKI KOIZUMI

Application No. 517/Mas/86 filed July 15, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An improved process for producing N-[3-[3-(1-piperidin-1-methyl) phenoxy] propyl] acetoxyacetamide hydrochloride which comprises acetylating N-[3-[3-(1-piperidinylmethyl) phenoxy] propyl] hydroxy-acetamide oxalate with acetic anhydride and without isolating the resulting N-[3-[1-piperidinylmethyl)-phenoxy] propyl] acetoxyacetamide treating the reaction mixture with 0.95 to 1.0 mole, per mole of the oxalate, of hydrogen chloride or a lower alkanoyl chloride, and thereafter isolating the resulting N-[3-[1-piperidinylmethyl) phenoxy]-propyl] acetoxyacetamide hydrochloride in a known manner.

(Com. - 10 pages; Drwgs. - 1 sheet)

CLASS :

163756

Int. Cl.4 : A 61 L 9/01.

METHOD OF PRODUCING DEODORANTS.

Applicant : DAINIPPON INK AND CHEMICALS, INC., A JAPANESE BODY CORPORATE, OF 35-58, 3-CHOME, SAKASHITA, ITABASHI-KU TOKYO, JAPAN.

Inventor : NOBUO KOBAYASHI, AZUMA KAWAZOE.

Application No. 582/Mas/86 filed 22 July 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

3 Claims

A method of producing a deodorant which comprises mixing as essential components (I) a water-soluble organic polymer having average molecular weight of at least 100,000 and containing at least one group selected from the class consisting of a carboxyl group and its ammonium salt, ammonium/alkali metal mixed salts and alkanolamine salts, sulfoalkyl groups, a sulfonic acid group, a phosphoric acid group, and a phosphoric acid group and their alkali metal salts, ammonium salts, alkanolamine salts and alkali metal/ammonium/alkanolamine mixed salts; and cationic groups, and/or a quaternary ammonium compound of the polymer, and (II) an aqueous medium such as herein described wherein the concentration of the water soluble organic polymer and/or its quaternary ammonium compound being 0.05 to 50 ppm.

Compl. specn. 46 pages.

Drg. Nil

CLASS : 163757

Int. Cl.⁴ : A 23 C 11/00.

A METHOD OF PREPARING A STABLE, DRY PROTEIN-FREE COFFEE WHITENER.

Applicant : SOCIETE DES PRODUITS NESTLE S. A. CASE POSTALE 353, VEVEY, SWITZERLAND. A COMPANY INCORPORATED IN SWITZERLAND.

Inventor(s) : MARK A. EINERSON, KHA TRAN.

Application No. 586/Mas/1986 filed on July 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A method of preparing a stable, dry protein-free coffee whitener which comprises :

forming an emulsion concentrate by mixing together a major proportion of carbohydrate such as herein described, a liquified fat such as herein described, a water soluble film-forming hydrocolloid and water, the weight ratio of hydrocolloid to fat being 0.04:1 to 0.7:1,

homogenizing in a known manner the concentrate to provide an emulsion of fat particles in water, with the fat particles being encapsulated with said hydrocolloid, and

spray drying the emulsion concentrate to a moisture content of no more than 3%.

Compl. specn. 17 pages.

Drg. Nil

CLASS : 163758

Int. Cl.⁴ : C 07 K 7/10

A METHOD FOR MANUFACTURING A PEPTIDE.

Applicant : THE SALK INSTITUTE FOR BIOLOGICAL STUDIES, A NOT-FOR-PROFIT CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF CALIFORNIA, UNITED STATES OF AMERICA, OF 1000 NORTH TORREY PINES ROAD, LA JOLLA, CALIFORNIA 92037, UNITED STATES OF AMERICA.

Inventors : (1) EMIL THOMAS KAISER
(2) GONUL VELICELEBI

Application No. 593/Mas/86 filed July 24, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims. No drawing.

A method for manufacturing a peptide having the Formula (I) :

$R_1-R_2-R_3-Ala-R_5-R_6-R_7-R_8-R_9-R_{10}-R_{11}-R_{12}-R_{13}-Leu-R_{15}-Gln-Leu-R_{18}-R_{19}-R_{20}-R_{21}-Leu-Leu-Gln-Glu-R_{26}-R_{27}-R_{28}-Arg-Y$ wherein R_1 is Tyr, D-Tyr, Met, Phe, D-Phe, Leu, His or D-His, which has either a $CaMe$ or $NaMe$ substitution or is unsubstituted; R_2 is Ala or D-Ala; R_3 is Asp or D-Asp; R_5 is Ile or Leu; R_6 is Phe or Tyr; R_7 is Ser or Thr; R_8 is Ser, Asn, Thr or Gln; R_9 is Ala or Ser; R_{10} is Tyr, Phe or Leu; R_{11} is Arg, Orn or Lys; R_{12} is Arg, Orn or Lys; R_{13} is Ile, Leu, Phe or Val; R_{15} is Gly or Ala; R_{18} is Ala or Ser; R_{19} is Ser or Ala; R_{20} is Arg, Orn or Lys; R_{21} is Arg, Orn or Lys; R_{26} is Leu, Ile, Val or Phe; R_{27} is Nle, Nva or a natural amino acid; R_{28} is Ala; Leu, Asn, Gln, or Ser; and Y is OH or NH_2 ; provided however that at least four of the residues constituting $R_5, R_6, R_7, R_8, R_9, R_{10}, R_{11}, R_{12}, R_{13}, R_{15}, R_{18}, R_{19}, R_{20}, R_{21}$ and R_{26} are different from the residues appearing in that respective position in native hGRF, comprising the steps of () joining individually protected amino acids or short peptide segments to form a peptide intermediate, having at least one protective group and the formula (II):

$X^1-R_1(X \text{ or } X^2)-R_2R_3()^3-Ala-R_5-R_6(X^2)-R_7(X^4)-R_8(X^4 \text{ or } X^5)-R_9(X^4)-R_{10}(X^2)-R_{11}(X^6 \text{ or } X^7)-R_{12}(X^6 \text{ or } X^7)-R_{13}-Leu-R_{15}-Gln(X^5)-Leu-R_{18}(X^2)-R_{19}(X^4)-R_{20}-X^6 \text{ or } X^7-R_{21}(X^6 \text{ or } X^7)-Leu-Leu-Gln(X^5)-Glu(X^3)-R_{26}-R_{27}(X^6)-R_{28}(X^4 \text{ or } X^5)-Arg(X^6)-X^9$

wherein: X, $X^1, X^2, X^3, X^4, X^5, X^6, X^7$, and X^8 are each either hydrogen or a protective group and X^9 is either a protective group or an anchoring bond to resin support des- X^9 ; (b) splitting off the protective group or groups of anchoring bond from said peptide of the Formula (II) by treatment with HF and one or more scavengers, such as anisole and methylethylsulfide; and (c) if desired, converting a resulting peptide into a nontoxic salt thereof by treatment with concentrated acetic acid or the like.

The peptides produced according to this invention promote the release of growth hormone by the pituitary gland in humans and other animals.

(Com. - 32 pages)

CLASS : 163759

Int. Cl.⁴ : A 61 K 35/78.

A PROCESS FOR PREPARING CAROB FLOUR WITH DEPURATIVE AND ANTI-DIARRHOEIC ACTIVITY.

Applicant : SOCIETE DES PRODUITS NESTLE S. A. CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventor : PIERRE WURSCH.

Application No. 614/Mas/1986 filed on July 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A process for preparing carob flour with depurative and anti-diarrhoeic activity which comprises heat-treating ripe carob pods with water at a temperature not exceeding 98°C to extract most of the sugars and water-soluble tannins, separating the residue, drying it at a temperature not exceeding 100°C and then grinding it into particles 200 μ m or less in diameter.

Compl. specn. 15 pages.

Drg. Nil

CLASS :

163760

Int. Cl.4 : A 01 N 59/02.

A METHOD FOR FORMING A HERBICIDAL COMPOSITION COMPRISING A SULFURIC ACID ADDUCT OF GLYPHOSATE.

Applicant : UNION OIL COMPANY OF CALIFORNIA, A CORPORATION OF THE STATE OF CALIFORNIA, U. S. A., OF 461, SOUTH BOYLSTON STREET, LOS ANGELES, CALIFORNIA 90017, U. S. A.

Inventor : DONALD CHRISTOPHER YOUNG.

Application No. 628/Mas.86 filed August 5, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A method for forming a herbicidal composition comprising a sulfuric acid adduct of glyphosate, which method comprises reacting sulfuric acid and glyphosate under conditions sufficient to form said adduct, wherein the glyphosate/ H_2SO_4 molar ratio is within the range of 0.1 to 10.

The composition prepared according to this invention is a systemic herbicide and can be used to control vegetation.

Compl. specn. 28 pages.

Drg. Nil

CLASS : 62-B & C₂.

163761

Int. Cl. : D 06 p 7/68.

A PROCESS AND A DEVICE FOR THE CONTINUOUS DYEING AND/OR FINISHING OF WET TEXTILE WEBS.

Applicant : HOFCHST AKTIENGESellschaft, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. HANS-ULRICH VON DER ELTZ, 2. PETER OPPITZ.

Application No. 517/Cal/83 filed April 28, 1983.

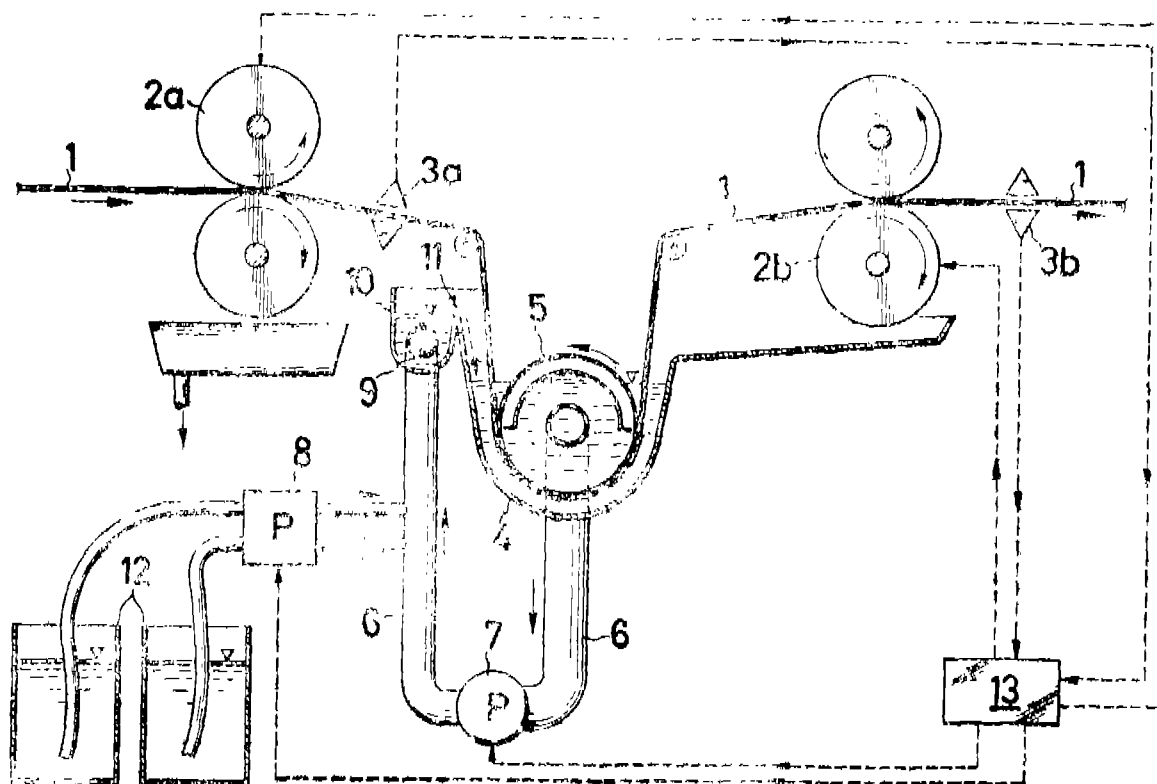
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A process for applying in a continuous and level manner aqueous impregnating liquors which contain at least one treatment agent to water-wet textile webs which, wet from a preceding wet-treatment, have been uniformly part-dewatered down to a certain residual moisture content, the webs' moisture content being constantly measured, in a contact-free manner along, as well as transverse, the path of the textile goods, by a piece of equipment which comprises more than two measuring positions across the width of the web before the liquor is applied and by another such measuring arrangement after the liquor has been applied, and in agreement with the measured values, the moisture content after a second dewatering being adjusted to be higher than that after the first dewatering, which comprises passing the continuously moving moist web, immersed in an impregnating through, below the surface of the liquid, in open width over a liquor exchange unit and continuously applying the liquor evenly over the width of the web by partly or completely replacing the moisture already present on the textile material by sucking or pressing a circulating impregnating liquor through the web as well as, at the same time, ensuring that the particular predetermined quantity of impregnating liquor is absorbed by the web, whereupon the reduction in concentration of treatment agent in the liquor, due to the liquor being diluted and the decrease in liquor volume, due to excessive absorption of liquor by the textile material, are compensated for by spent/consumed circulation liquor being strengthened or filled up by metering, into the bath, freshly prepared liquor replenishments as a function of the measured difference in liquor after the first and second dewatering.

Compl. specn. 26 pages.

Drg. 1 sheet



CLASS : 129-Q.

163762

Int. Cl. : B 23 k 35/00.

ELECTRODE FOR ELECTRIC ARC-SURFACING.

Applicant : KIEVSKY POLITEKHNIЧЕСKY INSTITUT IMENI 50-LETIA VELIKOI OKTYABRSKOI SOTSIALISTICHESKOI REVOLJUTSII, OF KIEV, BREST-LIVTOVSKY PROSPEKT, 39, USSR.

Inventors : 1. NIKOLAI ANTONOVICH GORPENJUK, 2. SEMEN BORISOVICH KOZLOV, 3. VLADIMIR SEMENOVICH BOGACHEV, 4. VALENTIN NIKOLAEVICH GORPENJUK, 5. BORIS NIKOLAEVICH GORPENJUK.

Application No. 101/Cal/85 filed on 12th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

An electrode for electric arc surfacing consisting of a low-carbon steel bar and a coating containing malleable fluorite, ferromolybdenum, ferrovanadium, ferrotitanium, ferrosilicon, ferromanganese, ferrochromium, and graphite and having the following composition, % by weight :

Marble	30—40
Fluorite	20—30
Ferromolybdenum	8—12
Ferrovanadium	4—6
Ferrotitanium	6—10
Ferrosilicon	4—8
Ferromanganese	2—5
Ferrochromium	8—12
Graphite	0.5—1.0.

Compl. Specn. 15 pages.

Drg. Nil.

CLASS : 81.

163763

Int. Cl. : H 01 1 15/00.

A FLAME DETECTOR.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010, COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U. S. A.

Inventors : 1. RICHARD CURTIS CIAMMAICHELLA, 2. BARRY JEFFREY YOUMANS.

Application No. 121/Cal/85 filed on 21st February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A flame detector comprising :

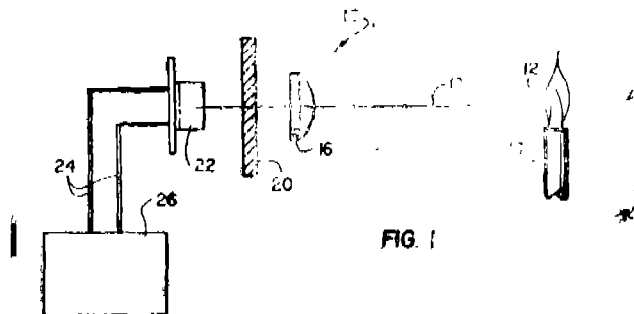
light collection means for collecting electromagnetic radiation from a flame source and having an optical axis;

filter means lying on said optical axis for receiving electromagnetic radiation collected by said light collection means and for passing only that portion of the electromagnetic radiation which differs between flame off and flame on conditions;

a solid state photocell, made of GaAsP semiconductor material, lying on said optical axis and positioned for receiving said portion of the electromagnetic radiation passed by said filter means, said photocell being sensitive to said portion of electromagnetic

radiation to and thus to generate a sensed light signal indicative of one of the flame on and the flame off condition for the flame source; and

circuit means connected to said photocell for producing one of a flame on and a flame off signal when said photocell generates said sensed light signal.



Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 158-E₃.

163764

Int. Cl. : B 60 g 25/00.

IMPROVEMENTS IN OR RELATING TO SUSPENSION ARRANGEMENT FOR BOGIE FRAMES OF FREIGHT CAR BOGIES.

Applicant : BHARTIA ELECTRIC STEEL COMPANY LIMITED, 7B & C POONAM 5/2 RUSSEL STREET, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventor : 1. ANAN THANARAYANAN KRISHNASWAMY BALASUBRAMANYAN.

Application No. 150/Cal/85 filed on 28th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

Improvements in or relating to suspension arrangement for bogie frames of freight car bogies having secondary suspension in side frames, characterized by the improvement wherein additional primary suspension means is provided in the said bogie frame, said primary suspension means being located above each of the wheel axles adjacent to said secondary suspension means, the side frame, housing the said secondary suspension means, being provided with a hat-like structure in place of conventional box frame one on its either end, said hat-like structure having a housings located at the vertical axis of each of the wheel axles end and adapted to house the primary suspension means, the said primary suspension means being made up of resilient material such as coil spring or rubber sandwich spring.

Compl. Specn. 24 pages.

Drgs. 3 sheets.

CLASS : 172-C₁, n.

163765

Int. Cl. : D 01 g 15/12.

A FIXTURE FOR PNEUMATIC CHARGING OF A NUMBER OF CARDS BY MEANS OF THE RESERVE SHAFTS CONNECTED IN SERIES INDIVIDUAL CARD.

Applicant : TRUTZSCHLER GMBH & CO. KG., OF
DUVENSTR. 82-92 D-4050 MONCHENGLADBACH 3,
FEDERAL REPUBLIC OF GERMANY.

Inventor : FERDINAND LEIFELD.

Application No. 717/Cal/85 filed on 10th October, 1985.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A fixture for pneumatic charging of a number of cards by means of the reserve shafts connected in series before individual card (9), the reserve shafts being connected with a common pneumatic conveyor line (6) and the charging shafts being connected afterwards to those, whereby the conveyor line (6) is connected with the fibre processing machine connected before in series over a material conveyor fan, e.g. fine opener, wherein the conveyor line (6) which is dependent on batch specific data or on the number of cards (8) under processing operation is provided for adjusting the volume of air and/or speed of the air, and control equipment (9) and/or with the locking equipments (11a to 11d) are at the head of each reserve shaft (7).

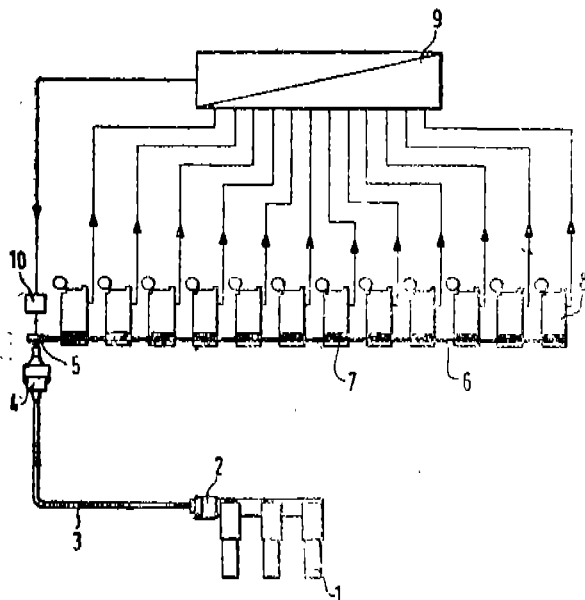


Fig. 1a

Compl. Specn. 16 pages.

Drgs. 6 sheets.

CLASS : 70-A; 107-G.

163766

Int. Cl. : B 01 k 1/00.

AN ENGINE ASSEMBLY.

Applicant & Inventor : IORWERTH THOMAS, OF 37
MEDWAY ROAD, WILKIN ESTATE, BROWNHILLS,
WEST MIDLANDS, ENGLAND WS8 7JY.

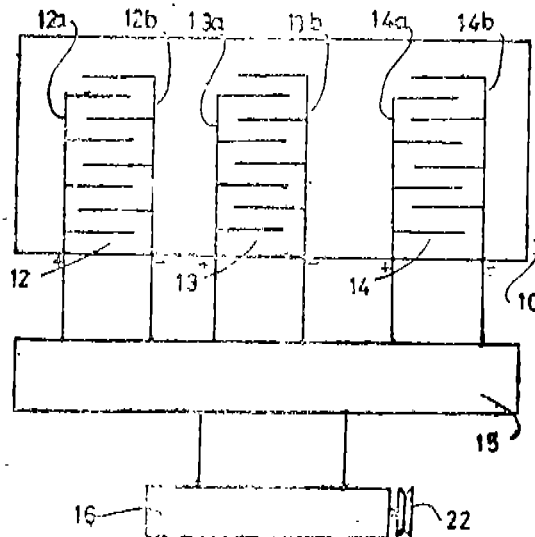
Application No. 937/Cal/85 filed on 30th December,
1985.

Convention dated 3rd January, 1985 (8500064) U. K.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An engine assembly comprising an engine, a fuel container for the engine, an electrolysis unit, an electrical supply for the electrolysis unit, and a mixing chamber in which gas generated by the electrolysis unit can be mixed with fuel from the fuel container prior to combustion in the engine, the electrolytic chamber containing a first and second sets of electrodes, each set comprising a cathode and an anode, and the sets being separately connected to the electrical supply.



Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 6-A₄.

163767

Int. Cl. : F 02 m 23/00.

A 47 1 7/06.

AIR FILTER.

Applicant : PIPERCROSS LIMITED, OF NENDEX
HOUSE, ROSS ROAD, WEEDON INDUSTRIAL ESTATE,
NORTHAMPTON NN5 5AX, ENGLAND.

Inventors : 1. BARRAY SPICER, 2. JOSEPH THOMAS
WILIS.

Application No. 90/Cal/86 filed on 7th February, 1986.

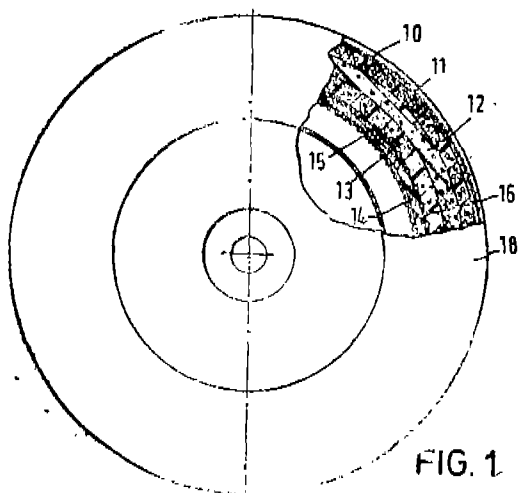
Convention dated 29th May, 1985 and 13th January,
1986 (8513540 and 8600720) both are U. K.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

An air filter which comprises first and second layers of recirculated foam plastics material bonded together face-to-face with an open mesh substrate disposed between these two layers at their bonded interface, the two layers being impregnated with a dust-retaining substance, the

first layer having pores of at least as large as the pores of the second layer and the filter being arranged with the first layer upstream of the second layer (with respect to the flow of air through the filter).



Compl. Specn. 15 pages.

Drgs. 3 sheets.

CLASS : 158-A, D & E₁. 163768

Int. Cl. : B 60 b 17/00.

UNDERFLOOR WHEEL SET TURNING MACHINE FOR REPROFILING WHEEL TYPE CONTOURS OF RAILWAY WHEELSTES.

Applicant : HOESCH MASCHINENFABRIK DEUTSCHLAND AG OF BORSIGSTRASSE 22, 4600 DORTMUND 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DIPL.-ING. UWE GUTOHRLEIN, 2. DIPL.-ING. DIRK BRINKMANN.

Application No. 227/Cal/86 filed on 20th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Underfloor wheelset turning machine for reprofiling the wheel tyre contours of railway wheelsets comprising two driven friction roller pairs each adapted to be pressed against a wheel tyre contour of a wheelset, the friction rollers of each friction roller pair being individually connected in each case to a pivot drive and each pivotal about a pivot axis arranged parallel to the wheelset axle, characterized in that each pivot drive (13, 14, 15, 16) comprises a pneumatic bellows cylinder (76, 77, 78, 79) for producing the pivot movement and that in each case two pivot drives (13, 14, 15, 16) associated with a friction roller pair (11, 12) are coupled to a synchronizing means (80, 81).

Compl. Specn. 8 pages.

Drgs. 7 sheets.

CLASS : 35-E. 163769

Int. Cl. : C 04 b 35/00.

LOW SHRINKAGE KAOLIN REFRACTORY FIBER AND METHOD FOR MAKING SAME.

Applicant : MANVILLE CORPORATION, P. O. BOX 5108, PATENT DEPT., DENVER, COLORADO 80217, U. S. A.

Inventors : 1. WILLIAM CLYDE MILLER, 2. LEONARD ELMO OLDS.

Application No. 366/Cal/86 filed on 14th May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A low shrinkage refractory fiber having a composition containing alumina, silica, and zirconia made from a composition comprising in percent by weight :

at least 72% of a clay selected from the groups generally designated as 1 : 1 dioctahedral phyllosilicates of the composition $Al_2Si_2O_5(OH)_4$: and 1-28% zircon.

Compl. Specn. 9 pages.

Drg. Nil.

CLASS : 40-A₁.

163770

Int. Cl. : B 01 j 19/00.

REACTOR FOR HYDROGENATION OF PETROLEUM DISTILLATES IN FIXED BED CATALYST.

Applicants : (1) VIKTOR GRIGORIEVICH SOLOVIEV, OF MOSKOVASKAYA OBLAST, LJUBERTSY, ULITSA 8 MARTA, 26, KORPUS I, KV. 8, USSR (2) ALEXEI IVANOVICH VASEIKO, OF MOSCOW, ULITSA ADADEMIKA PAVLOVA, 42, KV. 27, USSR; (3) VITALY EGROVICH FEDOTOV, OF PERM, PROSPEKT MIRA 66 KORPUS "V" KV. 60, USSR; (4) VLADIMIR MIKHAILOVICH KURGANOV, OF MOSCOW, RYAZANSKY PROSPEKT, 91, KORPUS I, KV. 3/5, USSR; (5) NIKOLAI IVANOVICH TEREKHOV, OF MOSCOW, SAMARKANDSKY BULVAR, 9, KORPUS I, KV. 59, USSR; (6) GENNADY NIKOLAEVICH CHERNOVISOV, OF MOSCOW, ULITSA KAKHOVKA, 22, KORPUS 5, KV. 365, USSR; (7) NIKOLAI VASILIEVICH RYZHKOV, OF PERM, ULITSA ODOEVSKOGO, 25, KV. 37, USSR.

Application No. 459/Cal/86 filed on 20th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A reactor for hydrogenation of petroleum distillates in a fixed-bed catalyst with straight-through upflow of reagents, comprising :

a cylinder-shaped shell having a bottom end-plate and a top end-plate and filled with a catalyst;

an inlet-connection for reagents provided in the bottom end-plate;

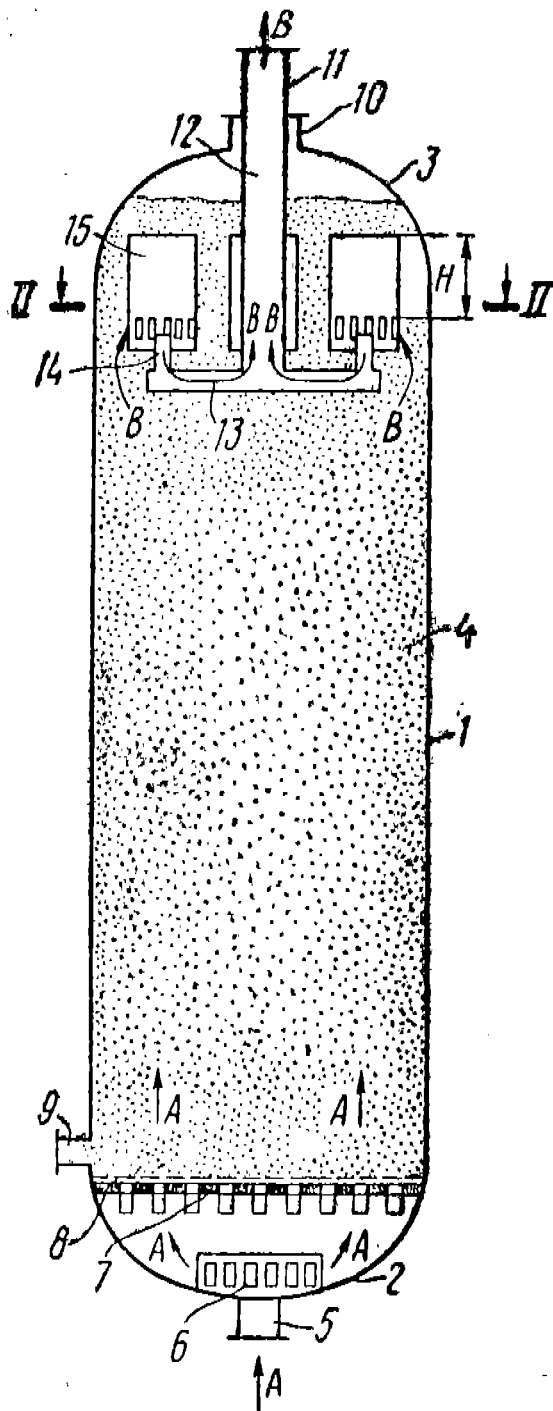
an outlet connection for the hydrogenation reaction products;

a header for collection of the products of the hydrogenation reaction;

said header being connected to the aforesaid outlet connection and made as a number of horizontal perforated pipes provided with nozzles and secured on a vertical pipe;

characterized in that a retaining device situated at the catalyst superficial layer and made as a number of closed vessels embedded in the catalyst bed and held to the nozzles of the reaction products' collecting

header in such a manner that the portion of each vessel facing the bottom end-plate of the cylinder-shaped shell is perforated to at least the level of the ends of the nozzles of the reaction products' collecting header.



Compl. specn. 12 pages.

Drg. 1 sheet

CLASS :

163771

Int. Cl.⁴ : C 03 B 37/075.

METHOD OF FORMING AN OPTICAL FIBER HAVING A PLURALITY OF LONGITUDINALLY-EXTENDING GLASS REGIONS.

Applicant : CORNING GLASS WORKS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF CORNING, NEW YORK 14831, U.S.A.

Inventor : GEORGE EDWARD BERKEY.

Application No. 883/Mas/84 filed November 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

A method of forming an optical fiber comprising providing a preform of glass having a first composition :

forming in said preform a plurality of longitudinally-extending holes which extend to at least one end thereof;

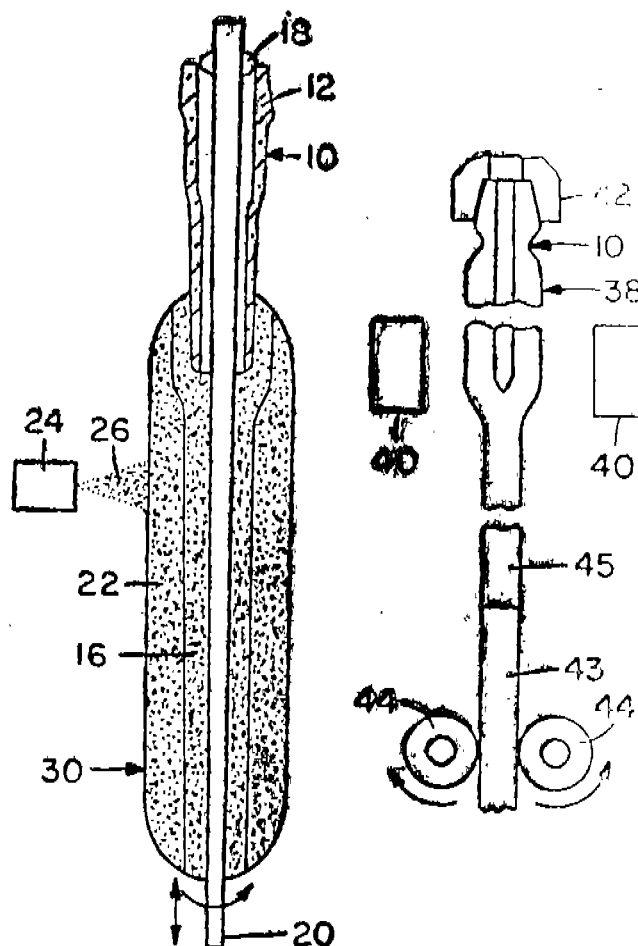
providing a plurality of glass rods at least a portion of which is formed of composition which differs from that of said first composition, the cross-sectional area of said rods being slightly smaller than that of said holes except at one end thereof where the rod cross-sectional area is greater than that of said holes;

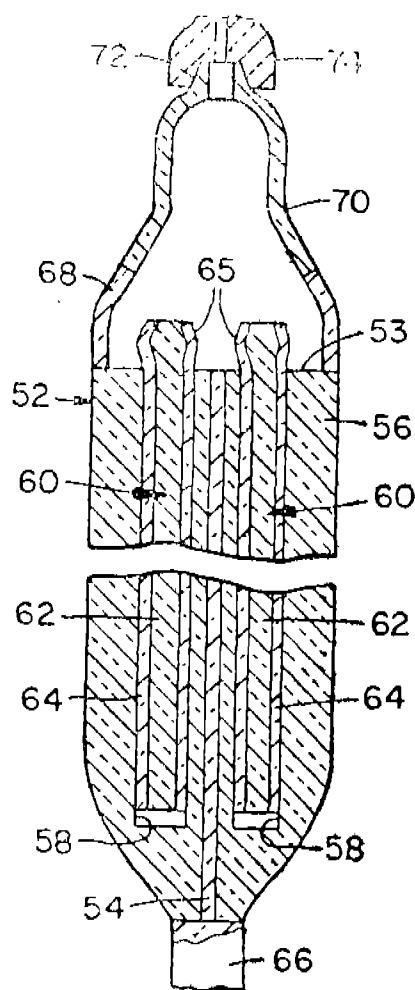
vertically orienting said preform with said one end facing upward;

inserting one of said rods into each of said holes prior to drawing, the large diameter ends of said rods protruding above said preform, whereby said rods are prevented from melting and sliding downwardly in said holes during said drawing;

affixing a vacuum connection to that end of said preform from which the large diameter ends of said rods protrude, whereby the space between each rod and the adjacent walls of said holes is evacuated; and

drawing the resulting assembly to bond together said glass rods and said preform into an integral optical fiber.





Compl. specn. 28 pages.

Drg. 2 sheets

Class I.
Int. Cl. 4—C01B 33/26

163772

A PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant : MOBIL OIL CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 150 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : ERIC GERARD DEROVANE, ROLAND VONBALLMOOS.

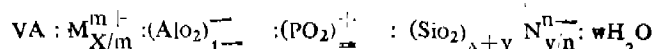
Application No. 983/Mas/84 filed December 14, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM-1 which, in its

as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table 1—A of the specification and has the composition,



wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent or water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H₂O and x and y are numbers of form greater than -1 to less than +1 which satisfy the relationships :

- (1) if x is 0, then y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of Al/P is greater than 1, then x + y is greater than 0.001 and y + 0.6x is less than 0.4 and

- (4) if the atomic ratio of Al/P is less than 1, then x + y is greater than 0.001 and x + 0.5y is less than 0.5

comprising the steps of :

- (i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being (A)_a : (M₂O)_b : (Al₂O₃)_c : (SiO₂)_d : (P₂O₅)_e : (Solvent)_f : (anion source)_g : (H₂)_h

wherein A and M are as defined above, a, b, c, d, e, f, g and h are numbers satisfying the relationships a/(c+d+e) is less than 1, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150;

- (ii) heating the said mixture at a rate of 5°C to 100°C per hour to temperature from 80°C to 300°C;

- (iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;

- (iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at pH of from 2 to 9 until crystals of silicophosphoaluminate material are formed ;

- (v) recovering from said reaction mixture said crystals in a conventional manner.

This novel synthetic crystalline silicophosphoaluminate material is useful in catalytic conversion of organic compounds.

(Com.—20 pages; Drawgs.—1 sheet)

Class 163773
INT. CLASS4 : C 01 B 33/26

A PROCESS FOR PRODUCING SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant : MOBIL OIL CORPORATION, a Corporation organized under the laws of the State of New York, U.S.A., of 150 East 42nd Street, New York New York 10017, U.S.A.

Inventor (s) : ERIC GREARD DEROUANE
ROL AND VON BALLMOOS

Class
Int. Cl.⁴—C 01 B 33/26

163774

Application No. : 934/MAS/84 filed on December 14, 1984

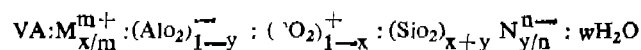
A PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Madras Branch.

Applicant: MOBIL OIL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF AMERICA, OF 150 EAST, 42nd STREET NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

3 Claims

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM-3 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table I—A of the specification and has the composition,



wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent or water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H₂O and x and y are number of from greater than -1 to less than +1 which satisfy the relationships:

- (1) if x is 0, then y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of Al/P is greater than 1, then x+y is greater than 0.001 and y+0.6x is less than 0.4 and

- (4) if the atomic ratio of Al/P is less than 1, then x+y is greater than 0.001 and x+0.5y is less than 0.5

comprising the steps of:

- (i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being (A)_a : (M₂O)_b : (Al₂O₃)_c : (SiO₂)_d : (P₂O₅)_e : (Solvent)_f : (anion source)_g : (H₂O)_h wherein A and M are as defined above, a, b, c, d, e, f, g and h are numbers satisfying the relationships a/(c+d+e) is less than 4, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150;
- (ii) heating the said mixture at a rate of 5°C to 200°C per hour to a temperature from 80°C to 300°C;
- (iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;
- (iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silicophosphoaluminate material are formed;
- (v) recovering from said reaction mixture said crystals in a conventional manner.

(Complete Specification—22 pages : Drawings—1 sheet)

This novel synthetic crystalline silicophosphoaluminate material is useful in catalytic conversion of organic compounds

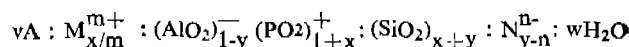
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS

Application No. 986/Mas/84 filed December 14, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims.

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM-5 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table I/A of the specification and has the composition—



Wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent or water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H₂O and x and y are numbers of from greater than -1 to less than +1 which satisfy the relationships:

- (1) if x is 0, then y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of Al/P is greater than 1, then x+y is greater than 0.001 and y+0.06x is less than 0.4 and
- (4) if the atomic ratio of Al/P is less than 1, then x+y is greater than 0.001 and x+0.5y is less than 0.5.

comprising the steps of:

- (i) preparing a two phase reaction mixture containing sources of aluminium, phosphorous and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being (A)_a : (M₂O)_b : (Al₂O₃)_c : (SiO₂)_d : (P₂O₅)_e : (Solvent)_f : (anion source)_g : (H₂O)_h

wherein A and M are as defined above, a, b, c, d, e, f, g and h are numbers satisfying the relationships a/(c+d+e) is less than 4, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150;

- (ii) heating the said mixture at a rate of 5°C to 200°C per hour to a temperature from 80°C to 300°C;
- (iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;
- (iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silicophosphoaluminate material are formed;

- (v) recovering from said reaction mixture said crystals in a conventional manner.

This novel synthetic crystalline silicophospho-aluminate material is useful in catalytic conversion of organic compounds.
(Com. —20 pages ; Drawings —1 Sheet)

CLASS :

Int. Cl.4- C 01 B 33/26

163775

A PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant: MOBIL OIL CORPORATION A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF 150 EAST, 42ND STREET, NEW YORK, NEW YORK - 10017, U.S.A.,

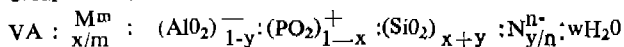
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS

Application No. 984/Mas/84 filed on December 14, 1984.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims.

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM-3 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table 1-A of the specification and has the composition,

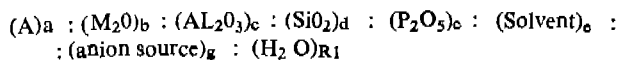


wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent of water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H_2O and x and y are numbers of from greater than -1 to less than +1 which satisfy the relationships :

- (1) if x is 0, then y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of Al/P is greater than 1, then x+y is greater than 0.001 and y+0.6x is less than 0.4 and
- (4) if the atomic ratio of Al/P is less than 1, then x+y is greater than 0.001 and x+0.5y is less than 0.5

comprising the steps of :

- (i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being :



wherein A and M are as defined above a, b, c, d, e, f, g and h are number satisfying the relationships a/(c+d+e) is less than 4, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150 ;

- (ii) heating the said mixture at a rate of 50°C to 200°C per hour to a temperature from 80°C to 300°C ;

- (iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other ;

- (iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silica-phosphoaluminate material are formed ;

- (v) recovering from said reaction mixture said crystals in a conventional manner.

This novel synthetic crystalline silicophosphoaluminate material is useful in catalytic conversion of organic compounds.
(Com. —23 pages; Drwgs. —1 sheet)

CLASS :

Int. Cl.4—C 01 B 33/26

163776

A METHOD FOR SYNTHESIZING A CRYSTALLINE OXIDE MATERIAL

Applicant : MOONIL OIL CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 150 EAST, 42ND STREET, NEW YORK, NEW YORK 10017 U.S.A.,

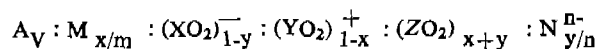
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS

Application No. 989-/Mas/84 filed December 14, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A method for synthesizing an anhydrous crystalline oxide characterised by the following composition :



wherein V is the number of moles of A, m is the valence of cation M, n is the valence of anion M, and x and y are numbers of from greater than -1 to less than +1 which satisfy the relationships :

- (1) if x is 0, the y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of X/Y is greater than 1, then (x+y) is greater than 0 and y+0.6x is less than 0.4, and
- (4) if the atomic ratio of X/Y is less than 1, then (x+y) is greater than 0 and 0.5 is greater than 0.5+x,

said crystalline oxide having an ion exchange capacity of at least about 0.002 meq/g; comprising the steps of :

- a. preparing a reaction mixture of a liquid organic phase containing a water-immiscible organic solvent and an aqueous phase and containing sources of oxides of one or more elements represented by X, Y and Z having valence 3, 5 and 4 respectively, an organic directing agent A such as herein defined, inorganic cations M and anions N as herein described, the components of said reaction mixture having the following relationships :

$(A)_g : (M2^0)_b : (X_2O_3)_c : (ZO_2)_a : (Y_2O_3)_d : (Solv)_f :$
 $(\text{anion source})_h : (H_2O)_h$

wherein a, b, c, d, e, f, g and h are numbers satisfying the following relationships :

- a/(c+d+e) is less than 4,
- b/(c+d+e) is less than 2,
- d/(c+e) is less than 2,
- f/(c+d+e) is from 0.1 to 15,
- g/(c+d+e) is less than 2, and
- h/(c+d+e) is from 3 to 150,

wherein upon initial preparation of said reaction mixture the source of one oxide of the X, Y or Z is dispersed or dissolved in said organic phase;

b. heating said reaction mixture at a rate of from 5° C to 200° C per hour to a temperature of from 80° C to 300° C;

c. agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;

d. maintaining said agitated reaction mixture at a temperature of from 80° C to 300° C and a pH of from 2 to 9 until crystals of oxide material are formed;

e. recovering from said reaction mixture said crystals in a conventional manner, and

f. drying the crystals recovered in step (e) in a conventional manner.

This novel synthetic crystalline silicophosphoaluminate material is useful in catalytic conversion of organic compound.

(Com.—53 pages; Drwgs.—1 sheet)

CLASS :

163777

Int. Cl.⁴ : A 01 N 57/02.

A METHOD FOR THE PREPARATION OF A SOLID, PHYTOACTIVE COMPOSITION.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06881, U.S.A. A AMERICAN COMPANY.

Inventor : JIMMY HUA-HIN CHAN, ROGER RACHID DJAFAR.

Application No. 418/Mas/86 filed 28 May 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

5 Claims

A method for the preparation of a solid, phytoactive composition comprising :

- (a) forming an initial mixture comprising a phytoactive N-phosphonomethyl-N-carboxymethyl compound, a solvent and a molten surfactant such as herein described, the surfactant being solid at ambient temperatures, wherein the ratio of the said phytoactive N-phosphonomethyl-N-carboxymethyl compound to surfactants is 10 : 1 to 1 : 10 by weight;
- (b) removing solvent by any known manner from said initial mixture to form a final mixture at a temperature above the melting point of the surfactant; and
- (c) cooling said final mixture to a temperature below the melting point of the surfactant to form a N-phosphonomethyl-N-carboxymethyl composition which is solid at ambient temperature.

Compl. specification 28 pages

drg. 1 sheet

The composition prepared according to this invention are useful in regulating the plant growth and as herbicides.

CLASS :

163778

Int. Cl.⁴ : A 23 L 1/09.

METHOD OF PRODUCING A SUGAR SYRUP FROM SORGHUM.

Applicant : BIOCON (U.K.) LIMITED, OF EARDISTON, NR. TENBURY WELLS, WORCESTERSHIRE; AND CADBURY SCHWEPPES PLC, OF BOURNVILLE, BIRMINGHAM B 30 2 LU ENGLAND. A BRITISH COMPANY.

Inventor : NORMAN DAVID JACKSON, BRIAN ANDREW McLUSKIE.

Application No. 806/Mas/86 filed on 13th October, 1986.

Convention dated 12th October, 85 (No. 8525194) : U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

4 Claims

A process for the production of sugar syrup from sorghum grain comprising the steps of :

- (a) partially hydrolysing the starch in the sorghum grain utilising a temperature stable amylase enzyme to give a dextrose equivalent of 10 to 20;
- (b) treating the partially hydrolysed starch with amyloglucosidase, α -amylase, β -glucanase and cellulase enzymes whereby starch is hydrolysed to form sugars in a filtrable aqueous medium;
- (c) removing any unwanted solids from said aqueous medium; and
- (d) concentrating the aqueous medium to produce a sugar syrup.

Compl. specification 24 pages.

Drg. 1 sheet

Sugar syrup prepared according to this invention are useful in the production of beverages.

CLASS :

163779

Int. Cl.⁴ : C 07 D 7/26.

A FACILE PHASE-TRANSFER CATALYSED SYNTHESIS OF COUMAPHOS (O, O-DIETHYL-O-(3-CHLORO-4-METHYL-7-COUMARINYL) PHOSPHOROTHIOATE.

Applicant & Inventor : ACHHA JAGDISH KUMAR, GAZULA LEVI DAVID KRUPADANAM AND GOTETY SRIMANNARAYANA, DEPARTMENT OF CHEMISTRY, OSMANIA UNIVERSITY, HYDERABAD-500 007, A.P., INDIANS.

Application No. 611/Mas/87 filed 24 August 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

